

04

MOBILITY



4.1 – INTRODUCTION

The Southwest Village Specific Plan area will have a mobility network accessible to people who walk, bike, take transit, and use a car. The network of streets, bike paths, sidewalks, trails, and paseos envisioned for Southwest Village will provide connections between proposed residential neighborhoods and commercial, retail, and public uses in the Village Core, including the future school, parks, and transit facilities. The mobility network is designed to service future development in Southwest Village while responding to natural changes in elevation and respecting the neighborhood’s open space areas.

This Specific Plan describes a mobility network that ensures a connected network of public streets to serve development. A network of smaller public streets and private drives will provide access to and within neighborhoods.

The mobility network in Southwest Village integrates the planned regional transportation network, as described in both the General Plan and Otay Mesa Community Plan, and SANDAG’s 2021 Regional Plan. The mobility network complements Southwest Village’s urban core, pedestrian-focused grid, and planned land use pattern to encourage walking, biking, and transit use within the Village Core and maximize opportunities for taking transit. This strategy is intended to result in limiting the amount of vehicle trips and reducing vehicle miles traveled and greenhouse gas emissions per capita, satisfying the City’s sustainability goals and policies within the General Plan and Climate Action Plan.

4.2 – STREET CLASSIFICATIONS

The mobility network described in this Specific Plan serves as the foundation for future development; provides key connections to support walking, biking, transit, and vehicular transportation throughout the Specific Plan area; and ensures that streets are designed to accommodate projected traffic volumes. The mobility network includes a system of roadway types that provide access throughout the Specific Plan area and connect the mixed-use Village Core, neighborhood school, neighborhood park, and are designed to ensure that high volumes of pedestrians and bicyclists can move efficiently, encouraging residents to walk and bike to village destinations. A description of street classifications for Southwest Village is shown in [Figure 4.1, Street Classifications](#), and summarized in [Table 4.1, Street Classification by Segment](#). Street design standards for each classification are based on the City’s Street Design Manual (March 2017), with specific modifications from these standards noted where applicable.

The mobility network in Southwest Village is organized around two key arterials that access the center of the community, with Caliente Avenue offering north-south access and Beyer Boulevard offering east-west access. These streets provide facilities for pedestrians, bicyclists, public transit, and drivers, ensuring that all modes are accommodated. They were designed with respect for the topography and the location of conserved open space within the Specific Plan and provide linkages to the larger Otay Mesa Community. Central Avenue will act as the main street for commercial, mixed-use, and medium-high-density residential uses. Central Avenue will include wide sidewalks, on-street parking, and street furniture to encourage strolling between shops.

A grid network of streets connects to the arterial streets, allowing for maximum use of the land, with consideration of ownership and lot configuration. The grid network provides blocks that do not exceed a 1,800-foot perimeter, which is consistent with the General Plan. These streets contain parkways, sidewalks, on-street and off-street bike facilities.

Figure 4.1 – Street Classifications



LEGEND

- **Specific Plan Boundary**
- **4-Lane Urban Collector Street**
with Class I Bike Paths and Class II Bike Lanes
- **Beyer Blvd West**
Modified 4-Lane Urban Collector (Built with 2-Lanes Due to Environmental Constraints) with Class II Bike Lanes with Buffer
- **Beyer Blvd East**
Modified 4-Lane Urban Major Street with Class I Bike Path and Class II Bike Lanes
- **2-Lane Collector Street**
with Two-Way Center Left Turn Lane and Class II Bike Lanes
- **2-Lane Collector Street**
with Two-Way Center Left Turn Lane and Class I Bike Path
- **2-Lane Collector Street**
with Two-Way Center Left Turn Lane, Class II Bike Lane on the West Side, and Class I Bike Path on the East Side
- **2-Lane Collector**
with Class II Bike Lanes
- **2-Lane Sub-Collector**
with Class II Bike Lanes
- **Commercial Collector Street**
with Class II Bike Lanes
- **2-Lane Collector**
with Class I Bike Path
- **2-Lane Collector**
with Class I Bike Path on the East Side and Class II Bike Lane on the West Side
- **2-Lane Collector**
with Class I Multi-use Path on One-Side
- **Emergency Vehicle Access Road**

Table 4.1 – Street Classification by Segment

| I.D. | Name | Classification | Estimated Ultimate ADT | Design ADT | ROW Width |
|------|-----------------|---|------------------------|----------------|------------|
| 1 | Caliente Ave | Modified ¹ 4-Lane Urban Collector with Class I Bike Path and Class II Bike Lanes with Buffer | 29,200 | 25,000 (LOS D) | 122 ft |
| 2 | Caliente Ave | Modified ¹ 4-Lane Urban Collector with Class I Bike Path and Class II Bike Lanes with Buffer | 29,200 | 25,000 (LOS D) | 122 ft |
| 3 | Beyer Blvd East | Modified ¹ 4-Lane Urban Major with Class I Bike Path and Class II Bike Lanes with Buffer | 28,100 | 35,000 (LOS D) | 116 ft |
| 4 | | Not Used ² | | | |
| 5 | S. Caliente Ave | Modified ¹ 4-Lane Urban Collector with Class I Bike Path and Class II Bike Lanes with Buffer | 17,200 | 25,000 (LOS D) | 122 ft |
| 6 | Beyer Blvd West | Beyer Blvd West (Modified ¹ 4-Lane Urban Collector (Built with 2 Lanes Due to Environmental Constraints)) with Class II Bike Lanes with Buffer | 28,100 | 25,000 (LOS D) | 53 ft |
| 7 | Central Ave | 2-Lane Collector with Class II Bike Lanes with Buffer | 4,500 | 6,500 (LOS D) | 69 ft |
| 8 | Central Ave | 2-Lane Collector with Class II Bike Lanes with Buffer | 3,900 | 6,500 (LOS D) | 62 ft |
| 9 | Central Ave | 2-Lane Collector with Two-Way Center Left Turn Lane with Class II Bike Lanes with Buffer | 7,200 | 13,000 (LOS D) | 88 ft |
| 10a | Central Ave | 2-Lane Collector with Class I Multi-Use Path on One-Side (North Side) | 6,000 | 6,500 (LOS D) | Min. 60 ft |
| 10b | 1st Ave | 2-Lane Collector with Class I Multi-Use Path on One-Side (East Side) | 4,100 | 6,500 (LOS D) | Min. 60 ft |
| 10c | Spine Road | 2-Lane Collector with Class I Multi-Use Path on One-Side (South Side) | 3,200 | 6,500 (LOS D) | Min. 60 ft |
| 11 | Spine Road | 2-Lane Collector with Two-Way Center Left Turn Lane with Class II Bike Lanes with Buffer | 8,200 | 13,000 (LOS D) | 88 ft |
| 12 | West Ave | 2-Lane Collector with Two-Way Center Left Turn Lane and Class II Bike Lane with Buffer on West Side and Class I Bike Path on the East Side | 7,800 | 13,000 (LOS D) | 87 ft |
| 13 | West Ave | 2-Lane Collector with Class I Bike Path on East Side and Class II Bike Lane with Buffer on West Side | 4,100 | 6,500 (LOS D) | 75 ft |
| 14 | Central Ave | 2-Lane Collector with Two-Way Center Left Turn Lane and Class II Bike Lanes with Buffer | 7,700 | 13,000 (LOS D) | 88 ft |
| 15 | Central Ave | 2-Lane Commercial Collector with Class II Bike Lanes with Buffer | 5,500 | 6,500 (LOS D) | 80 ft |
| 16 | S. Caliente Ave | Modified ¹ 4-Lane Urban Collector with Class I Bike Path and Class II Bike Lanes with Buffer | 13,900 | 25,000 (LOS D) | 122 ft |
| 17 | S. Caliente Ave | Modified ¹ 2-Lane Collector with Two-Way Center Left Turn Lane and Class I Bike Path | 6,600 | 13,000 (LOS D) | 86 ft |
| 18 | Street A | Emergency Vehicle Access Road | N/A | N/A | 24 ft |
| 19 | East Ave | 2-Lane Collector with Class II Bike Lanes with Buffer | 4,700 | 6,500 (LOS D) | 76 ft |
| 20 | Street A | 2-Lane Collector with Class II Bike Lanes with Buffer | 5,800 | 6,500 (LOS D) | 76 ft |
| 21 | Street A | 2-Lane Commercial Collector with Class II Bike Lanes with Buffer | 6,300 | 13,000 (LOS D) | 80 ft |
| 22 | Street A | 2-Lane Collector with Two-Way Center Left Turn Lane and Class II Bike Lanes with Buffer | 6,600 | 13,000 (LOS D) | 88 ft |
| 23 | West Ave | 2-Lane Collector with Class I Bike Path on East Side and Class II Bike Lanes with Buffer on West Side | 3,700 | 6,500 (LOS D) | 75 ft |
| 24 | Street B | 2-Lane Collector with Class I Bike Path | 2,600 | 6,500 (LOS D) | 74 ft |
| 25 | Street B | 2-Lane Collector with Class I Bike Path | 3,500 | 6,500 (LOS D) | 74 ft |
| 26 | Street B | 2-Lane Collector with Class I Bike Path | 2,300 | 6,500 (LOS D) | 74 ft |
| 27 | Street C | 2-Lane Sub-Collector with Class II Bike Lanes with Buffer | 4,000 | 2,200 (LOS C) | 76 ft |
| 28 | Street D | 2-Lane Collector with Class II Bike Lanes with Buffer | 2,900 | 6,500 (LOS D) | 76 ft |
| 29 | Street D | 2-Lane Collector with Class II Bike Lanes with Buffer | 1,300 | 6,500 (LOS D) | 76 ft |
| 30 | Street B | 2-Lane Collector with Two-Way Center Left Turn Lane and Class I Bike Path | 8,700 | 13,000 (LOS D) | 86 ft |
| 31 | S. Caliente Ave | 2-Lane Collector with Class II Bike Lanes with Buffer | 3,000 | 6,500 (LOS D) | 76 ft |
| 32 | N/A | Emergency Vehicle Access Road | N/A | N/A | 20 ft |

1. See specifications tables in Section 4.5.1 through 4.5.13 for the modifications to the Street Design Manual incorporated into the street classifications.

2. Segment 4 is not used because it was identified as redundant and therefore integrated with Segment 3.

4.3 – BICYCLE NETWORK

The proposed bicycle network for the Southwest Village Specific Plan, illustrated in *Figure 4.2, Bicycle Facility Network*, and summarized in *Table 4.2, Bicycle Facility Type by Street Segment*, consists of an extensive network of dedicated facilities that are connected to activity centers and provide access to public transit. The bicycle network includes Class I bike paths and Class II bike lanes with a buffer. Bicycle facility classifications are in accordance with the Otay Mesa Community Plan and the Bicycle Master Plan. See Sections 4.3.1 Class I Bike Paths and 4.3.2 Class II Bike Lanes with Buffer for further detail on these types of bicycle facilities.

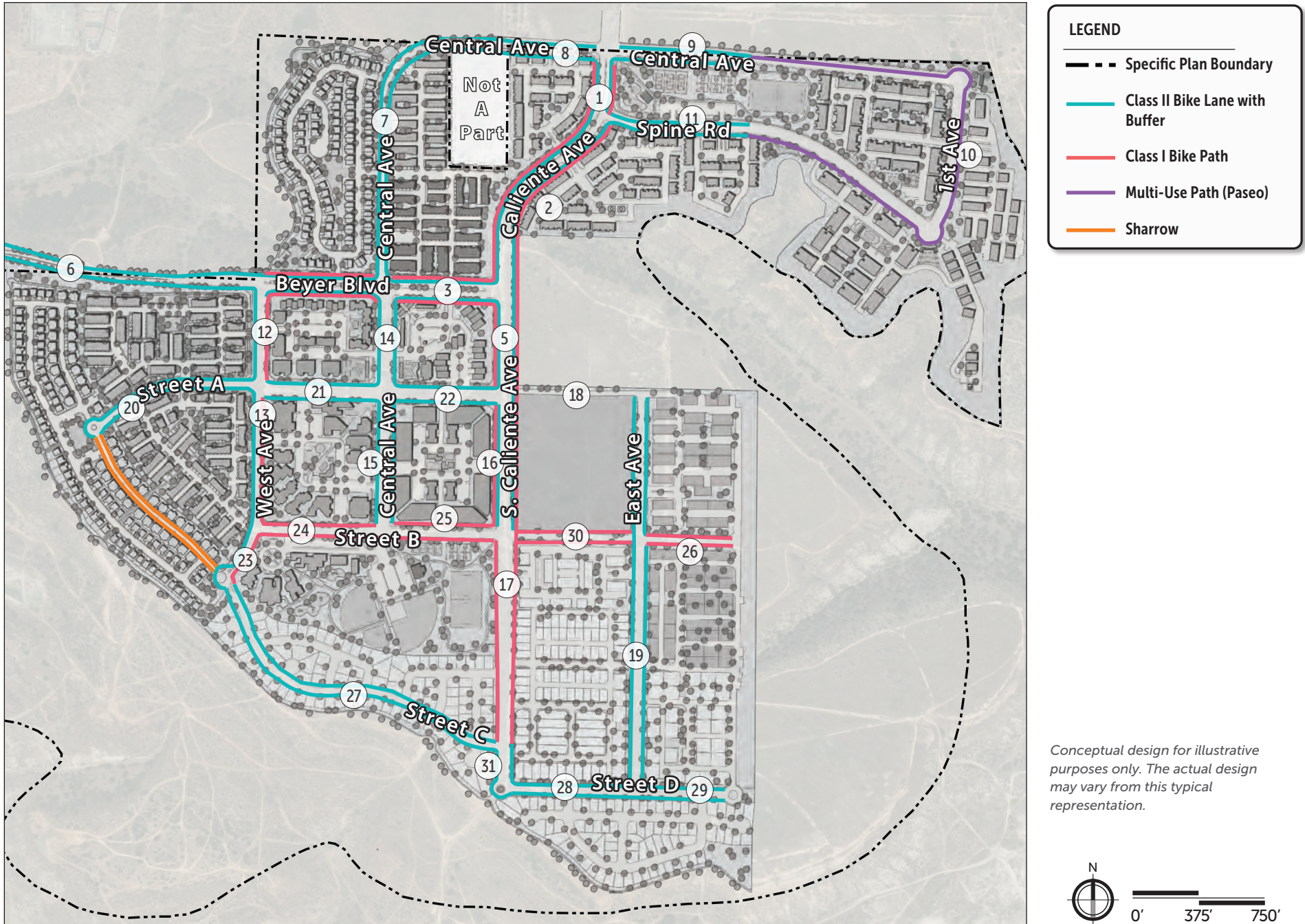
A shared multi-use path will be located on Caliente Avenue and Beyer Boulevard, and other areas in and around the Village Core to provide continuity and enhanced connectivity for both north-south and east-west travel across Southwest Village. The Class I bike paths will connect from the Southwest Village to Airway Road.

To ensure the network effectively connects residential neighborhoods to destinations within the Southwest Village, including commercial uses, schools, and a mobility hub, all public streets will contain some form of bicycle facility. Class II bicycle lanes on public streets will provide connections to recreational opportunities and schools.

Table 4.2 – Bicycle Facility Type by Street Segment

| I.D. | Name | Type |
|------|---|--|
| 1 | Caliente Ave | Class I Bike Path and Class II Bike Lanes with Buffer |
| 2 | Caliente Ave | Class I Bike Path and Class II Bike Lanes with Buffer |
| 3 | Beyer Blvd East | Class I Bike Path and Class II Bike Lanes with Buffer |
| 4 | | Not Used |
| 5 | S. Caliente Ave | Class I Bike Path and Class II Bike Lanes with Buffer |
| 6 | Beyer Blvd West | Class II Bike Lanes with Buffer |
| 7 | Central Ave | Class II Bike Lanes with Buffer |
| 8 | Central Ave | Class II Bike Lanes with Buffer |
| 9 | Central Ave | Class II Bike Lanes with Buffer |
| 10 | 1st Ave, Spine Road east of Segment 11, Central Ave east of Segment 9 | Class I Multi-Use Path on One Side (Exterior Side) |
| 11 | Spine Road | Class II Bike Lanes with Buffer |
| 12 | West Ave | Class II Bike Lane with Buffer on West Side and Class I Bike Path on East Side |
| 13 | West Ave | Class II Bike Lane with Buffer on West Side and Class I Bike Path on East Side |
| 14 | Central Ave | Class II Bike Lanes with Buffer |
| 15 | Central Ave | Class II Bike Lanes with Buffer |
| 16 | S. Caliente Ave | Class I Bike Path and Class II Bike Lanes with Buffer |
| 17 | S. Caliente Ave | Class I Bike Path |
| 18 | Street A (fire access road only) | N/A |
| 19 | East Ave | Class II Bike Lanes with Buffer |
| 20 | Street A | Class II Bike Lanes with Buffer |
| 21 | Street A | Class II Bike Lanes with Buffer |
| 22 | Street A | Class II Bike Lanes with Buffer |
| 23 | West Ave | Class I Bike Path on the East Side and Class II Bike Lane with Buffer on the West Side |
| 24 | Street B | Class I Bike Path |
| 25 | Street B | Class I Bike Path |
| 26 | Street B | Class I Bike Path |
| 27 | Street C | Class II Bike Lanes with Buffer |
| 28 | Street D | Class II Bike Lanes with Buffer |
| 29 | Street D | Class II Bike Lane with Buffer |
| 30 | Street B | Class I Bike Path |
| 31 | S. Caliente Ave | Class II Bike Lanes with Buffer |
| 32 | N/A | N/A |

Figure 4.2 – Bicycle Facility Network



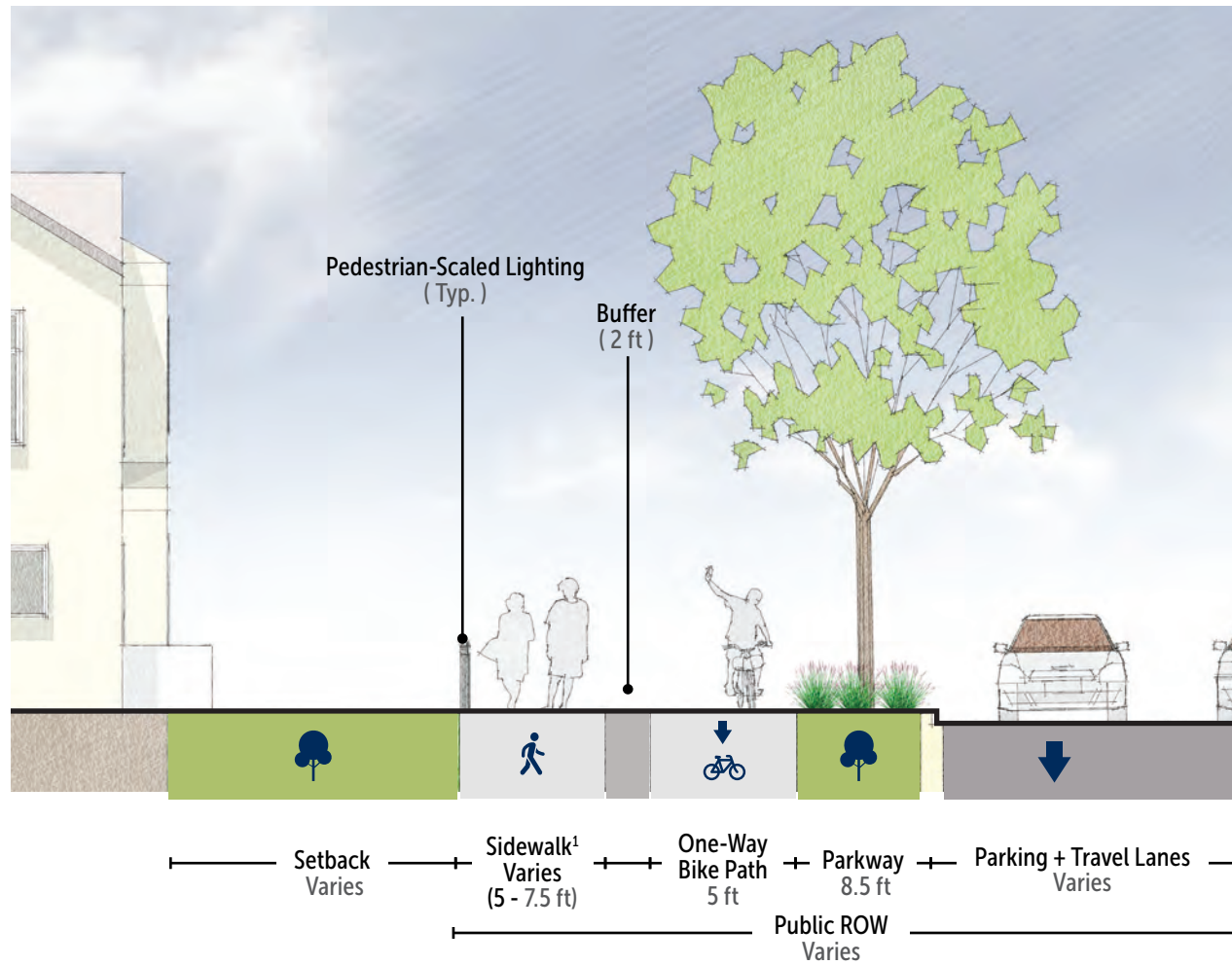
4.3.1 – Class I Bike Paths

- Class I bike paths provide single-directional bicycle facilities that are associated with transportation corridors and are incorporated into new development.
- Class I bike paths are adjacent to high automobile traffic areas and will be separated from traffic flow by street trees and landscaping in the parkway landscaping area.
- Class I bike paths include a minimum 5-foot travel lane for bicycles and separate sidewalks for pedestrians.
- Sidewalk widths will be determined by the street design standards in the Specific Plan.
- A minimum 2-foot striped buffer should be provided to separate the bicycle lane from the pedestrian area.
- The components of a one-way Class I bike path are illustrated in [Figure 4.3, One-Way Class I Bike Path Cross-Section](#).
- The buffer should incorporate paint or other treatments to visually demarcate the buffer area.
- Grades on these bike paths should generally be gentle; however, bike paths adjacent to roads may exceed typical bike path standards.
- Class I bike paths have improved surfacing, typically through asphalt, concrete, pavers, and other hard surfaces.
- At intersections, the Class I bike path can be dropped and merged onto the street, or it can be maintained at sidewalk level, where bicyclists cross with pedestrians, possibly with a dedicated bicycle signal.



One-way Class I Bike Paths

Figure 4.3 – One-Way Class I Bike Path Cross-Section



Notes:

1. Includes a 6-inch buffer for curb and a 6-inch buffer for proposed pedestrian scale lighting within the public right-of-way (ROW).

4.3.2 – Class II Bike Lanes with Buffer

- Class II bike lanes with a buffer will be included as part of the public streets identified in [Table 4.2, Bicycle Facility Type by Street Segment](#).
- Class II bike lanes allocate a portion of the street for bicyclists by using pavement striping and signage.
- Class II bike lanes will be a minimum of 6 feet and include a buffer with a minimum width of 2 feet between the bike lane and the vehicle travel lane.
- The buffer will be defined by painted markings in the street.
- Class II bike lanes with a buffer should be designed based on the City's Bicycle Facilities Design Guidelines.



Example photos of Class II bike lanes with buffer.

4.4 — PEDESTRIAN NETWORK

Southwest Village will include a network of sidewalks, paseos, and trails organized around the grid network of public streets. A non-contiguous sidewalk will be included on both sides of all public streets except Beyer Boulevard West, and the community will be surrounded by a perimeter trail to provide access along the edge of the development and open spaces. Paseos may be located where opportunities exist to enhance connectivity in Southwest Village. The proposed pedestrian network for the Southwest Village Specific Plan is shown in [Figure 4.5, Pedestrian Facility Network](#). For Pedestrian System Policies, see Section 3.5.2, Pedestrian System Policies.

4.4.1 — Class I Multi-Use Paths

- Class I multi-use paths are part of the public right-of-way, intended for exclusive use by bicyclists, pedestrians, and those using non-motorized modes of travel.
- Class I multi-use paths are physically separated from vehicular traffic in an exclusive right-of-way.
- Class I multi-use paths are used in areas of light vehicular travel for a more neighborhood feel.

4.4.2 — Paseos

- Paseos are multipurpose pathways within, adjacent to, or through developments.

- Although paseos are not associated with a street or within the public right-of-way, paseos may be adjacent or parallel with easements that allow public access.
- Paseos serve as connector trails by improving access and facilitating connections between and through development.
- As shown in [Figure 4.4, Typical Paseo Cross-Section](#), paseos should have a hard surface or a soft surface that is suitable for use by bicycles and pedestrians.
- Lighting, wayfinding signage, and landscaping should be provided as part of paseos while considering the location near adjacent development.
- Paseos should have an active frontage and allow for pedestrian and bicycle travel.
- Paseos provide an opportunity to locate recreational amenities to activate the space and provide additional opportunities for recreation.

4.4.3 — Mid-Block Crossings

- Consider providing mid-block crossings in locations where there is a significant pedestrian desire to cross a street such as schools or parks.
- Ensure that mid-block pedestrian crossings comply with City Council Policy 200-07, Comprehensive Pedestrian Crossing Policy.

Figure 4.4 — Typical Paseo Cross-Section

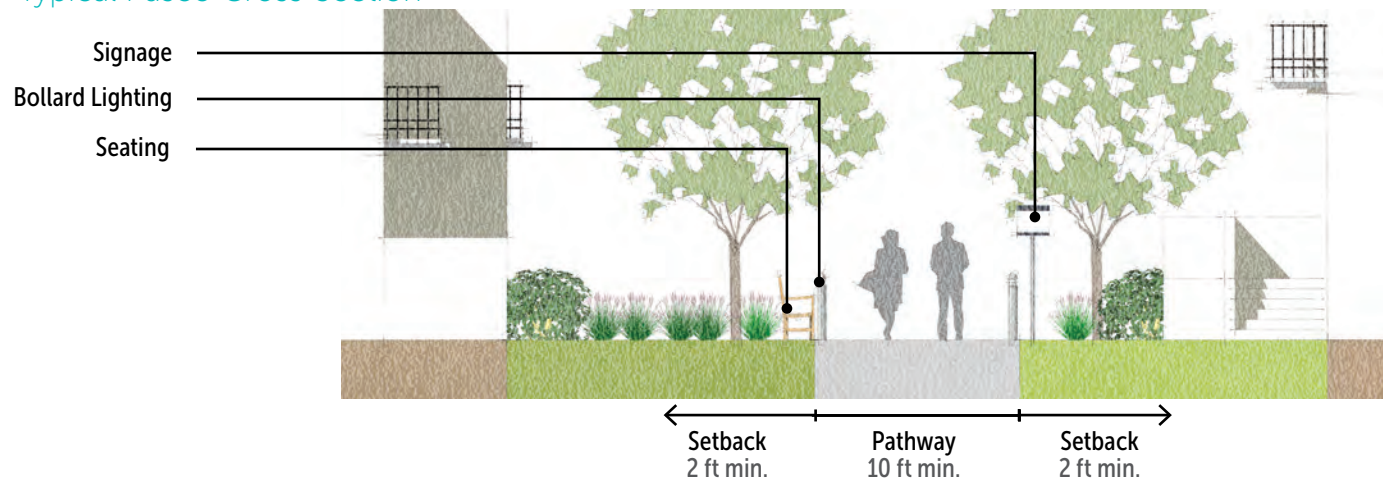


Figure 4.5 – Pedestrian Facility Network

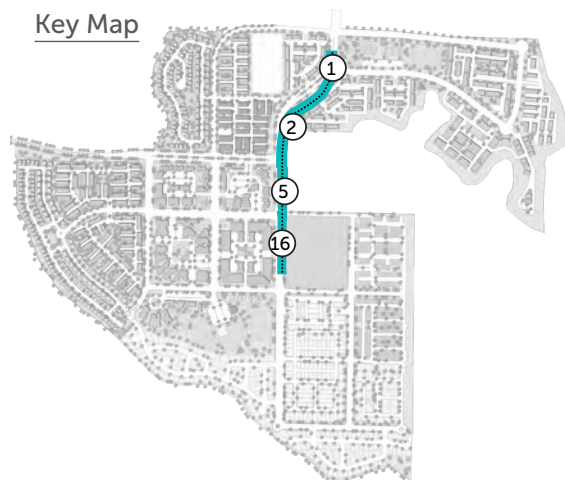


4.5 – STREET DESIGN STANDARDS

Street design standards for each classification shown in [Figure 4.1, Street Classifications](#), and summarized in [Table 4.1, Street Classification by Segment](#), are further described on the following pages. The following street design standards shall supersede the applicable standards within the Street Design Manual as they pertain to the Southwest Village. The following sections include specification tables that include the modifications to the Street Design Manual as they apply to the Specific Plan area. Refer to [Section 7.9, Supplemental Development Regulations](#).

4.5.1 – Modified 4-Lane Urban Collector with Class I Bike Paths and Class II Bike Lanes

- Caliente Avenue, north of Street B, is planned as a Modified 4-Lane Urban Collector, designed to accommodate high traffic volumes and provide the primary access in and out of Southwest Village.
- The Modified 4-Lane Urban Collector provides two travel lanes and a buffered Class II bike lane in each direction, divided by a raised median.
- Modifications have been made to the cross-section in the City’s Street Design Manual to include a Class I bike facility as part of the parkway and to remove on-street parking.
- Non-contiguous sidewalks and landscaping strips are also included on both sides.
- [Figure 4.6](#) shows a cross-section of a Modified 4-Lane Urban Collector with Class I Bike Paths and Class II Bike Lanes.

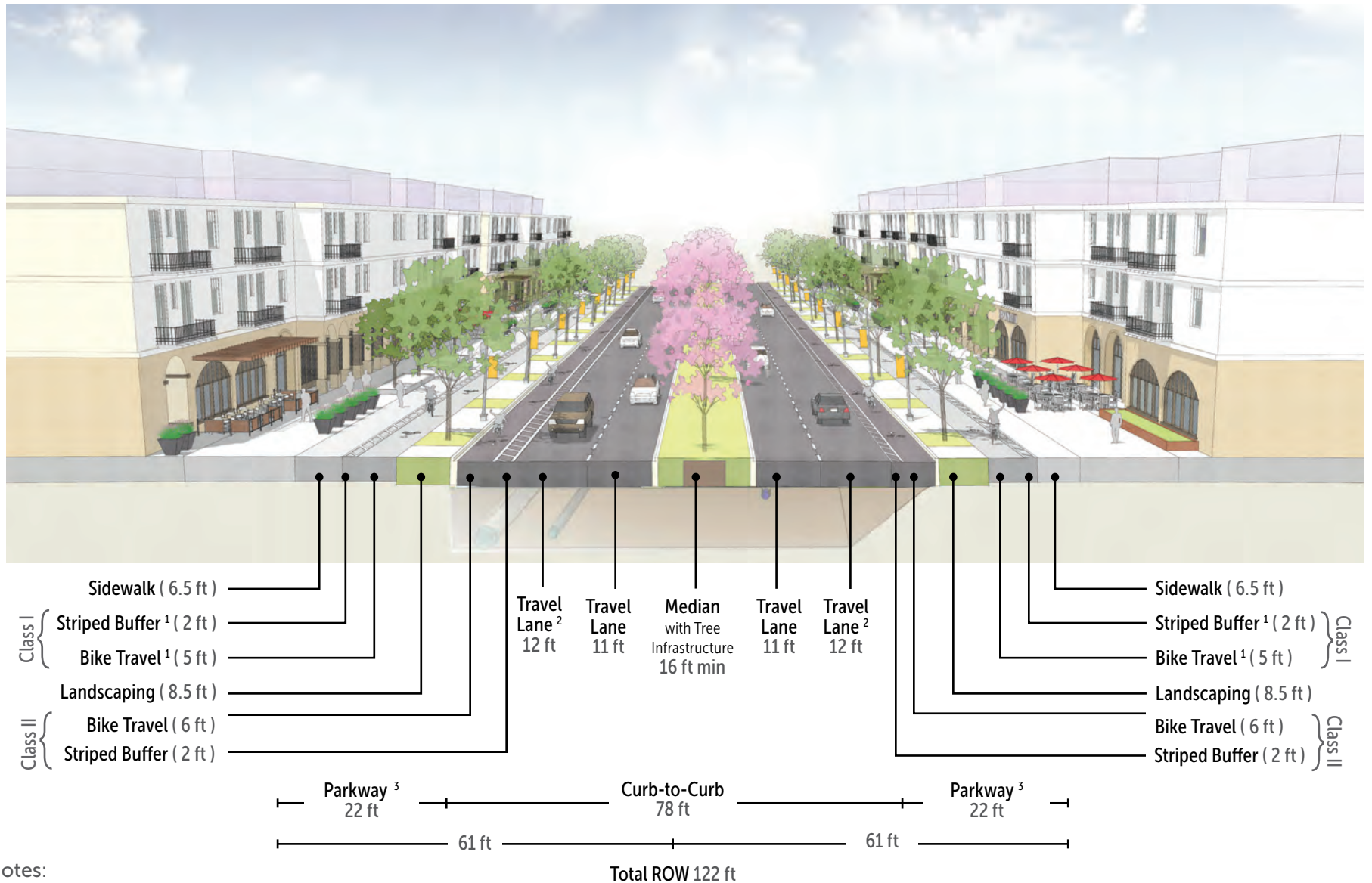


SPECIFICATIONS

Based on the City of San Diego Street Design Manual (March 2017 Edition)
Four-Lane Urban Collector Specifications

| | |
|--|---|
| Applicable Streets | Caliente Avenue (north of Street B) |
| Urban Parkway | 22-Foot Wide Parkway with Non-Contiguous Sidewalk |
| Street Tree | Parkway: <i>Podocarpus gracilior</i> (Fern Pine) Raised Median: <i>Cercis occidentalis</i> (Western Redbud) |
| Modifications to Street Design Manual (Refer to Section 7.9) | <ol style="list-style-type: none"> 1. A one-way Class I bike path shall be included on each side of the street, in addition to the Class II buffered bike lane. 2. Design speed shall be reduced. 3. On-street parking shall not be included. 4. The right-of-way shall be widened an additional 10 feet at approaches to intersecting four- or six-lane streets to provide a minimum of 250 feet of two-lane left-turn storage, exclusive of transitions. 5. A mid-block pedestrian crossing shall be included on Segment 2 to intercept with the perimeter trail 6. Receiving lanes for dual lefts shall be 12 feet wide. |

Figure 4.6 – Modified Cross-Section for 4-Lane Urban Collector with Class I Bike Paths and Class II Bike Lanes



Notes:

1. See Section 4.3.1 for Class I Bike Paths.
 2. The outside travel lane has a width of 12 feet to provide additional buffer from bike lanes.
 3. Includes 6-inch curb.
- * Section represents a typical condition.

4.5.2 – Beyer Boulevard West (Modified 4-Lane Urban Collector (Built with 2 Lanes Due to Environmental Constraints)) with Class II Bike Lanes with Buffer

- The western section of Beyer Boulevard beginning at the intersection with West Avenue and extending to the San Ysidro community will have a modified 4-Lane Urban Collector configuration with the right-of-way width reduced due to environmental constraints – biological resources and geological hazards – to the maximum extent possible.
- The point of connection of Beyer Boulevard West will meet at the existing intersection of Beyer Boulevard and Enright Drive, as shown in [Figure 1.1](#).
- This modified version of the 4-Lane Urban Collector includes one lane of travel in each direction, a sidewalk on the south side, and buffered Class II bike lanes on each side.
- [Figure 4.7](#) shows a cross-section for the Beyer Boulevard West, Modified 4-Lane Urban Collector.

SPECIFICATIONS

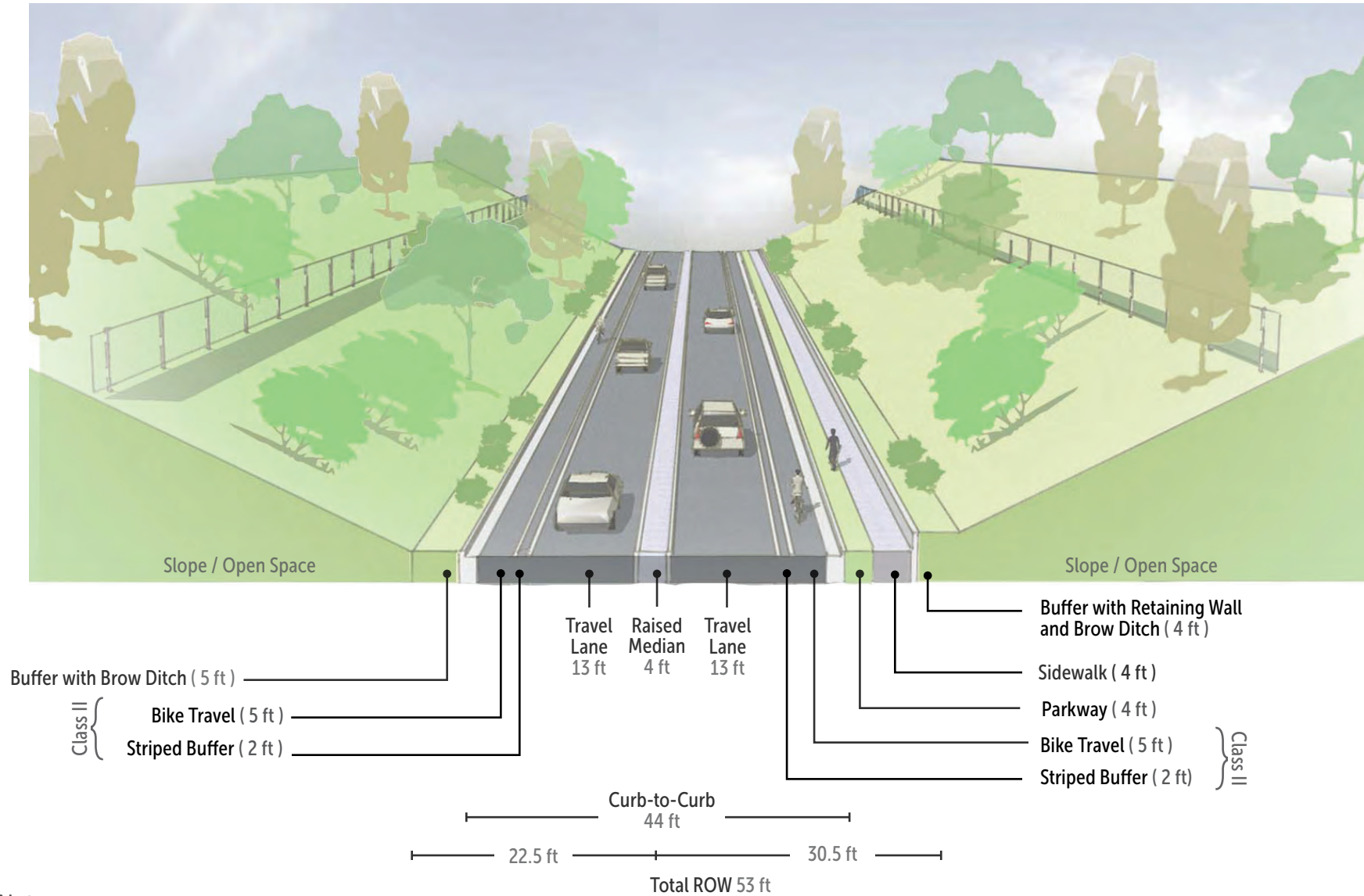
Based on the City of San Diego Street Design Manual (March 2017 Edition)
Four-Lane Urban Collector Street Specifications

| | |
|--|---|
| Applicable Streets | Beyer Boulevard West (west of West Avenue) |
| Street Tree | Trees shall not be planted within the right-of-way due to environmental constraints |
| Modifications to Street Design Manual (Refer to Section 7.9) | <ol style="list-style-type: none"> 1. The curb-to-curb width shall be reduced, including one lane of travel in each direction, a sidewalk on the south side, reduced sidewalk width, reduced median width, reduced parkway width, and eliminating on-street parking to minimize the total right-of-way width due to environmental constraints. 2. Transition from 4 lanes to 2 lanes shall occur west of West Avenue. |

Key Map



Figure 4.7 – Modified Cross-Section for 4-Lane Urban Collector (Built with 2 Lanes Due to Environmental Constraints)



Notes:

1. Includes 6-inch curb.

* Section represents a typical condition.

4.5.3 – Beyer Boulevard East (Modified 4-Lane Urban Major with Class I Bike Path and Class II Bike Lanes With Buffer)

- Beyer Boulevard East is planned as a modified 4-Lane Urban Major with Class I Bike Path and Class II Bike Lanes.
- The modified version of the 4-Lane Urban Major has a raised median and parkways, but includes the same number of travel lanes in each direction and a Class I bike path and buffered Class II bike lanes on each side.
- **Figure 4.8** shows a modified cross-section for Beyer Boulevard East, Modified 4-Lane Urban Collector.

Key Map

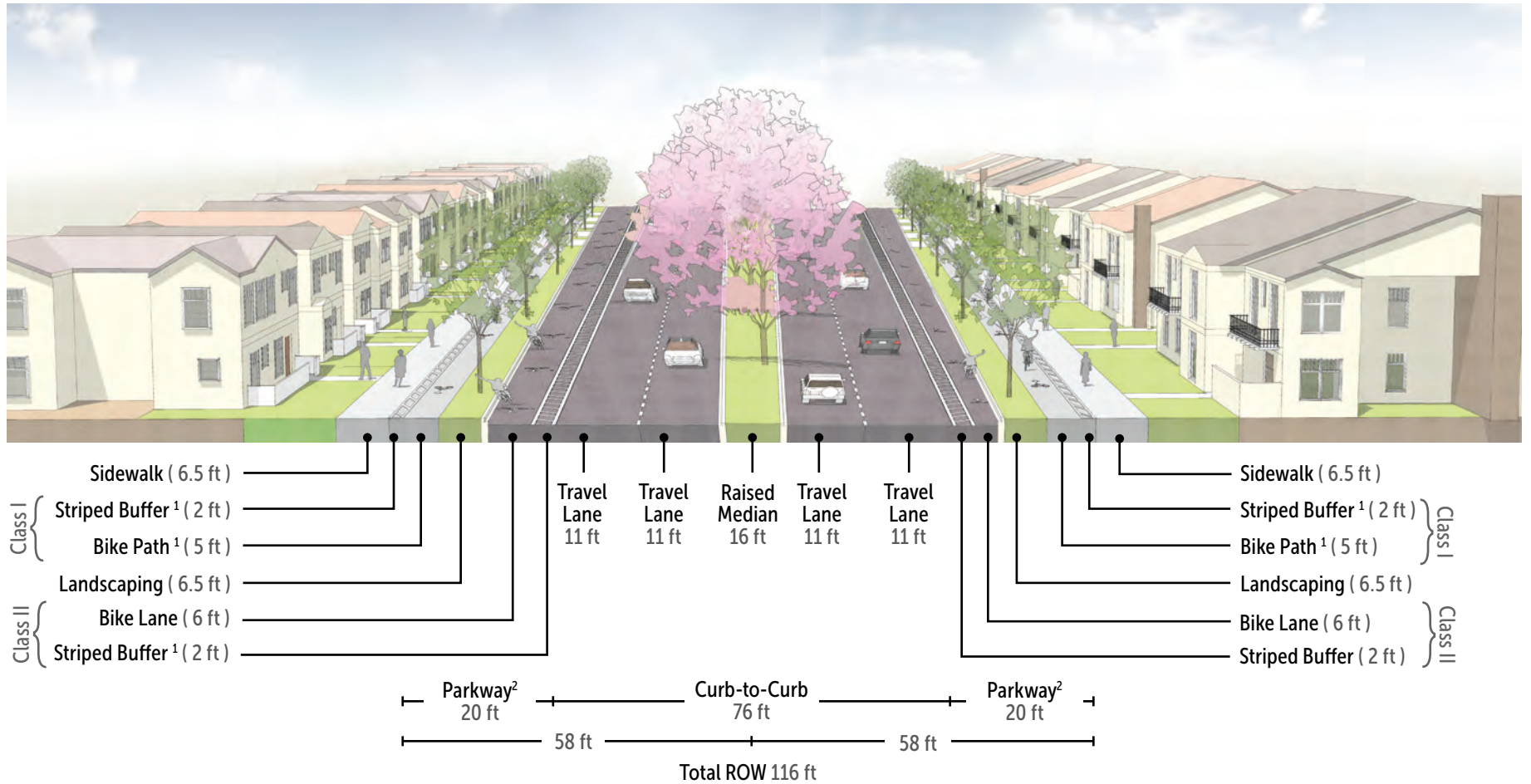


SPECIFICATIONS

Based on the City of San Diego Street Design Manual (March 2017 Edition)
Four-Lane Urban Major Specifications

| | |
|--|--|
| Applicable Streets | Beyer Boulevard East (east of West Avenue) |
| Street Tree | Parkway: <i>Podocarpus gracilior</i> (Fern Pine) Median: <i>Cercis occidentalis</i> (Western Redbud) |
| Modifications to Street Design Manual (Refer to Section 7.9) | <ol style="list-style-type: none"> 1. The width of the landscaped parkway shall be reduced. 2. Class I bike paths shall be included within the parkway 3. The curb-to-curb width shall be reduced by eliminating on-street parking. |

Figure 4.8 – Modified Cross-Section for 4-Lane Urban Major with Class I Bike Path and Class II Bike Lanes With Buffer



Notes:

1. See Section 4.3.1 for Class I Bike Paths.
 2. Includes 6-inch curb.
- * Section represents a typical condition.

4.5.4 – 2-Lane Collector with Two-Way Center Left Turn Lane with Class II Bike Lanes with Buffer

- Central Avenue (east of Caliente Avenue, and between Beyer Boulevard East and Street A), Street A (between Central Avenue and South Caliente Avenue), and Spine Road (west) are planned as a 2-Lane Collector Street with Two-Way Center Left Turn Lane.
- The cross-section includes one travel lane in each direction, separated by a two-way center left turn lane.
- Each side includes a Class II buffered bike lane, on-street parallel parking, and a landscaped area with an adjacent non-contiguous sidewalk.
- *Figure 4.9* shows the roadway section of a Modified 2-Lane Collector Street with Two-Way Center Left Turn Lane with Class II Bike Lanes with Buffer.

Key Map



| SPECIFICATIONS Based on the City of San Diego Street Design Manual (March 2017 Edition) Two-Lane Collector with Two Way Left Turn Lane Specifications | |
|--|--|
| Applicable Streets | Central Avenue (east of Caliente Avenue, and between Beyer Boulevard East and Street A), Street A (between Central Avenue and South Caliente Avenue), Spine Road (west) |
| Urban Parkway | 14-foot Parkway with Tree Grates |
| Street Tree | Segments 9 and 11: <i>Platanus racemosa</i> (California Sycamore) Segments 14 and 22: <i>Tipuana tipu</i> (Tipu Tree) |
| Modifications to Street Design Manual (Refer to Section 7.9) | <ol style="list-style-type: none"> 1. 6-foot Class II bike lanes with a buffer shall be included. 2. Two-way left-turn lane shall be considered only for streets of limited length where intersections are closely spaced or where there is extensive driveway access. |

Figure 4.9 – Modified Cross-Section for 2-Lane Collector with Two-Way Center Left Turn Lane with Class II Bike Lanes with Buffer



Notes:

- 1. Includes 6-inch curb.
 - 2. Where the Two-Way Left Center Turn Lane is not needed, a raised center median should be considered to address access management
- * Section represents a typical condition.

4.5.5 – Modified 2-Lane Collector with Two-Way Center Left Turn Lane and Class I Bike Path

- South Caliente Avenue (between Street B and Street C) and Street B between South Caliente Avenue and East Avenue are planned as a modified version of the 2-Lane Collector with Two-Way Left Turn Lane and Class I Bike Path.
- The street cross-section is modified to include a separated, Class I bike path to extend the facility through Southwest Village and connect to Caliente Avenue and Beyer Boulevard East. The modification removes the on-street bike lane to provide a separated, Class I bike path as part of the parkway area.
- *Figure 4.10* shows the cross-section of the Modified 2-Lane Collector with Two-Way Left Turn Lane and Class I Bike Path.

SPECIFICATIONS

Based on the City of San Diego Street Design Manual (March 2017 Edition)
Two-Way Left Turn Lane Specifications

| | |
|---|--|
| Applicable Streets | South Caliente Avenue (between Street B and Street C) and Street B (between South Caliente Avenue and East Avenue) |
| Street Tree | Podocarpus gracilior (Fern Pine) |
| Modifications to Street Design Manual (Refer to Section 7.9) | <ol style="list-style-type: none"> 1. Modified to include a one-way Class I bike path shall be included on each side of the street. |

Key Map



Figure 4.10 – Modified Cross-Section for 2-Lane Collector with Two-Way Left Turn Lane and Class I Bike Path



Notes:

1. See Section 4.3.1 for Class I Bike Paths.

2. Includes 6-inch curb.

* Section represents a typical condition.

4.5.6 – 2-Lane Collector with Two-Way Center Left Turn Lane, Class II Bike Lane with Buffer on West Side, and Class I Bike Path on East Side

- The northernmost segment of West Avenue (north of Street A) is planned as a modified version of the 2-Lane Collector with Two-Way Center Left Turn Lane.
- The street cross-section is modified to include a Class I bike path on the east side of the street near the Village Core and to extend the facility through Southwest Village and connect to Beyer Boulevard.
- The modification removes the on-street bike lane to provide a Class I bike path as part of the parkway area on the east side of the street. A buffered Class II bike lane will also be provided on the west side of the street.
- **Figure 4.11** shows the cross-section of the Modified 2-Lane Collector with Two-Way Center Left Turn Lane, Class I bike path on the east side, and a buffered Class II bike lane on the west side of the street.

SPECIFICATIONS

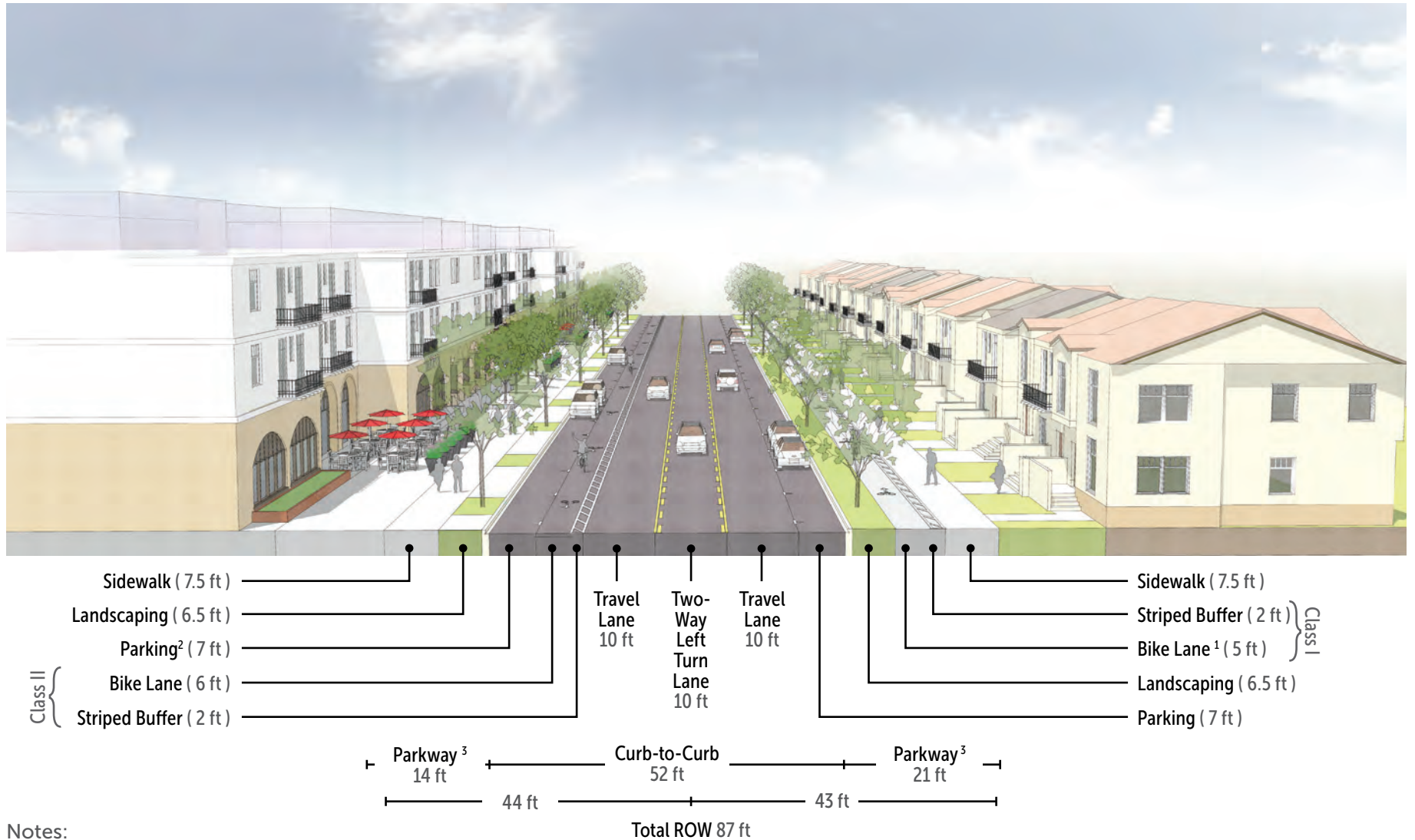
Based on the City of San Diego Street Design Manual (March 2017 Edition)
Two-Way Left Turn Lane Specifications

| | |
|--|--|
| Applicable Streets | West Avenue (north of Street A) |
| Street Tree | Rhus lancea (African Sumac) |
| Modifications to Street Design Manual (Refer to Section 7.9) | <ol style="list-style-type: none"> 1. The east side of the street shall replace the Class II on-street bike lane with a one-way Class I bike path. 2. Parking on one side of the street may be provided as an interim condition until full width improvements can be provided for West Avenue. |

Key Map



Figure 4.11 – Modified Cross-Section for 2-Lane Collector with Two-Way Center Left Turn Lane, Class II Bike Lane with Buffer on West Side, and Class I Bike Lane with Buffer on East Side



Notes:

1. See Section 4.3.1 for Class I Bike Paths.
 2. Some areas may not include parking on one side in an interim condition (see page 96).
 3. Includes 6-inch curb.
- * Section represents a typical condition.

4.5.7 – 2-Lane Collector with Class II Bike Lanes

- Central Avenue (north of Beyer Boulevard East), Street A (west of West Avenue), East Avenue, Street D, and South Caliente Avenue (south of Street C) are planned as a 2-Lane Collector Street with Class II Bike Lanes, which provide access from key streets within Southwest Village to individual planning areas.
- 2-Lane Collector Streets provide for one lane of travel in each direction and parking, an on-street Class II buffered bike lane, landscaping, and a sidewalk on each side of the street.
- **Figure 4.12** shows a modified 2-Lane Collector with Class II Bike Lanes.



SPECIFICATIONS

Based on the City of San Diego Street Design Manual (March 2017 Edition)
Two-Lane Collector Specifications

| | |
|--|---|
| Applicable Streets | Central Avenue (north of Beyer Boulevard East); Street A (west of West Avenue); East Avenue, Street D; South Caliente Avenue (south of Street C) |
| Minimum Curve Radius | 500 feet above 6 percent grade (maximum) superelevation 450 feet at or below 6 percent grade (maximum) superelevation |
| Street Tree | Segments 7, 8, 20: Lagerstroemia indica (Crape Myrtle) Segments 19, 28, 29, and 31: Jacaranda mimosifolia (Jacaranda) |
| Modifications to Street Design Manual (Refer to Section 7.9) | <ol style="list-style-type: none"> 1. A Class II buffered bike lane shall be included on each side of the street. 2. Segments 7 and 8 shall include a minimum curve radius of 348 feet on Central Avenue. 3. Segment 7 shall allow parking on only the east side of the street to provide buffered Class II bike lanes on both sides of the street |

Figure 4.12 – Modified Cross-Section for 2-Lane Collector with Class II Bike Lanes



4.5.8 – 2-Lane Sub-Collector with Class II Bike Lanes

- Street C is planned as a 2-Lane Sub-Collector Street, which provides access from streets within Southwest Village to individual planning areas.
- 2-Lane Sub-Collector Streets provide for one lane of travel in each direction, on-street parking, and Class II buffered bike lane, landscaping, and a sidewalk on each side of the street.
- A Sub-Collector classification allows for fronting driveways.
- [Figure 4.13](#) shows a modified 2-Lane Sub-Collector with Class II Bike Lanes.

Key Map

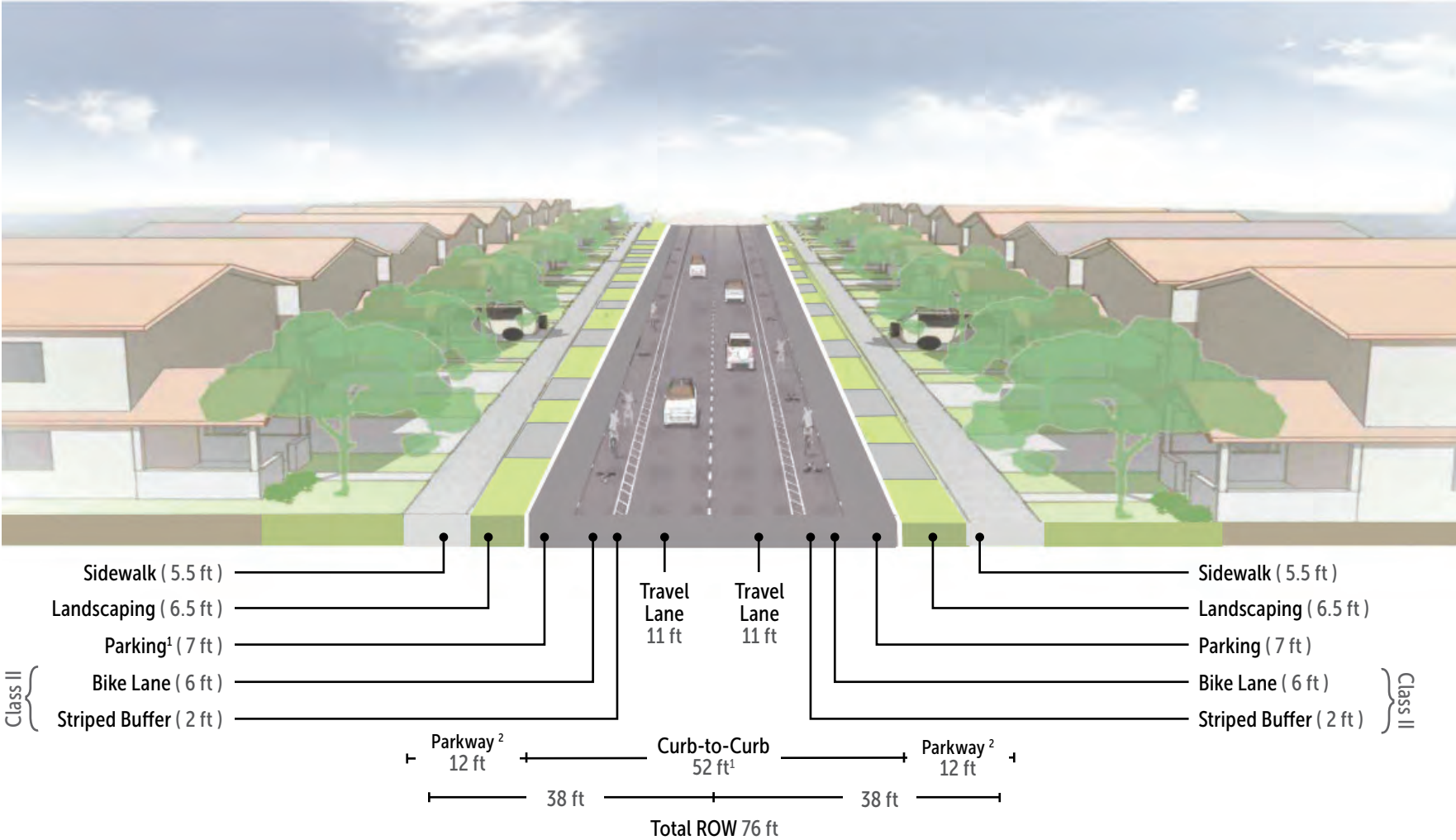


SPECIFICATIONS

Based on the City of San Diego Street Design Manual (March 2017 Edition)
Two-Lane Sub-Collector Specifications

| Applicable Streets | Street C |
|--|--|
| Minimum Curve Radius | 500 feet above 6 percent grade (maximum) superelevation 450 feet at or below 6 percent grade (maximum) superelevation |
| Street Tree | Segment 27: Jacaranda mimosifolia (Jacaranda) |
| Modifications to Street Design Manual (Refer to Section 7.9) | 1. A Class II buffered bike lane shall be included on each side of the street. |

Figure 4.13 – Modified Cross-Section for 2-Lane Sub-Collector with Class II Bike Lanes



Notes:
 1. Some areas may not include parking.
 2. Includes 6-inch curb.
 * Section represents a typical condition.

4.5.9 – 2-Lane Commercial Collector with Class II Bike Lanes

- Street A (east of West Avenue and west of Central Avenue) and Central Avenue (south of Street A) are planned as a 2-Lane Commercial Collector with Class II Bike Lanes.
- 2-Lane Commercial Collector streets are intended to provide an urban feel with a 14-foot wide parkway with tree grates and include on-street parking and Class II buffered bike lanes.
- **Figure 4.14** represents a standard 2-Lane Commercial Collector with Class II buffered Bike Lanes.

| SPECIFICATIONS | |
|---|---|
| Based on the City of San Diego Street Design Manual (March 2017 Edition) Two-Lane Collector Specifications | |
| Applicable Streets | Street A (east of West Avenue, west of Central Avenue); Central Avenue (south of Street A) |
| Street Tree | Tipuana tipu (Tipu tree) |
| Modifications to Street Design Manual (Refer to Section 7.9) | <ol style="list-style-type: none"> 1. A Class II buffered bike lane shall be included on each side of the street. 2. A 14-foot wide Parkway with Tree Grates shall be included. |

Key Map



Figure 4.14 – Typical Cross-Section for 2-Lane Commercial Collector with Class II Bike Lanes



Notes:

- 1. Some areas may not include parking.
- 2. Includes 6-inch curb.
- * Section represents a typical condition.

4.5.10 – Modified 2-Lane Collector with Class I Bike Path

- Street B (west of South Caliente Avenue and east of East Avenue) is planned as a modified version of the 2-Lane Collector with Class I Bike Path.
- The street cross-section is modified to provide a Class I bike path on both sides of the street to provide an east-west pedestrian and bicycle connection throughout Southwest Village and increase access to the school and park in the Village Core.
- An example cross-section for the modified 2-Lane Local Collector is included in *Figure 4.15, Modified Cross-Section for 2-Lane Collector with Class I Bike Path*.

| SPECIFICATIONS | |
|---|--|
| Based on the City of San Diego Street Design Manual (March 2017 Edition) Two-Lane Collector Specifications | |
| Applicable Streets | Street B (west of South Caliente Avenue and east of East Avenue) |
| Street Tree | Olea europaea fruitless (Olive “fruitless” Tree) |
| Modifications to Street Design Manual (Refer to Section 7.9) | <ol style="list-style-type: none"> 1. A one-way Class I bike path shall be included on each side of the street. |

Key Map



Figure 4.15 – Modified Cross-Section for 2-Lane Collector with Class I Bike Path



Notes:

1. See Section 4.3.1 for Class I Bike Paths .

2. Includes 6-inch curb.

* Section represents a typical condition.

4.5.11 – 2-Lane Collector with Class II Bike Lane with Buffer on West Side and Class I Bike Path on East Side

- West Avenue (south of Street A) is planned as a 2-Lane Collector with Class II bike lane with a buffer on the west side and a Class I bike path on the east side.
- The street cross-section is modified to provide a Class I bike path on the east side of West Avenue near the Village Core to provide a north-south pedestrian and bicycle connection throughout Southwest Village and increase access to the school and park in the Village Core.
- An example cross-section for the modified 2-lane local collector with a Class II buffered bike lane buffer on the west side and a Class I bike path on the east side is included in [Figure 4.16, Modified Cross-Section for 2-Lane Collector with Class II Bike Lane with Buffer on West Side and Class I Bike Path on East Side](#).

SPECIFICATIONS

Based on the City of San Diego Street Design Manual (March 2017 Edition)
Two-Lane Collector Specifications

| | |
|--|--|
| Applicable Streets | West Avenue (south of Street A) |
| Street Tree | Rhus lancea (African Sumac) |
| Modifications to Street Design Manual (Refer to Section 7.9) | <ol style="list-style-type: none"> 1. A one-way Class I bike path shall be included on the east side of the street and a Class II bike lane on the west side. |

Key Map



Figure 4.16 – Modified Cross-Section for 2-Lane Collector with Class II Bike Lane with Buffer on West Side and Class I Bike Path on East Side



Notes:
 1. See Section 4.3.1 for Class I Bike Paths.
 2. Includes 6-inch curb.
 * Section represents a typical condition.

4.5.12 – 2-Lane Collector with Multi-Use Path on One Side (Exterior Side)

- Central Avenue (east), 1st Avenue, and Spine Road (east) are planned as a modified version of the 2-Lane Collector with a multi-use path on one side.
- The street cross-section maintains the configuration of the travel lanes of the 2-Lane Collector.
- Modifications include eliminating parking on one side and adding space for a meandering paseo on the other side of the street.
- An example cross-section for the modified 2-Lane Collector with Multi-Use Path on One Side is included in [Figure 4.17](#).
- The exterior side of the multi-use path will be on the northern, eastern, and southern sides of 1st Avenue.

SPECIFICATIONS

Based on the City of San Diego Street Design Manual (March 2017 Edition)
Two-Lane Collector Specifications

| | |
|--|--|
| Applicable Streets | Central Avenue (east); Spine Road (east); 1st Avenue |
| Street Tree | Platanus racemosa (California Sycamore) |
| Modifications to Street Design Manual (Refer to Section 7.9) | <ol style="list-style-type: none"> 1. Parking on one side of the street shall be eliminated. 2. A meandering variable width landscaped paseo between 16 feet and 34 feet wide shall be included. |

Key Map



Figure 4.17 – Modified Cross-Section for 2-Lane Collector Street with Multi-Use on One Side (Exterior Side)



Notes:
 1. Includes 6-inch curb.
 * Section represents a typical condition.

4.5.13 – Private Drives

- The Specific Plan area includes privately-owned land with planned private drives.
- Private drives are held to different standards than the public roadways per the Street Design Manual.
- Private drives will provide a network of connections to disperse traffic and give people a choice of routes to neighborhood destinations such as schools, parks, and the Village Core.
- Private drive sidewalks will provide direct access to the rest of the Southwest Village.
- Private drives should incorporate non-contiguous sidewalks on private drives, where possible.
- Class III shared lanes with sharrows along private drives will offer connectivity to Class I and Class II bike facilities.
- An example cross-section for a typical Private Drive is included in [Figure 4.18, Typical Cross-Section for Private Drive or Alley](#).

4.5.14 – Alleys

- An alley is a public right-of-way for secondary means of access, usually lying along the rear of a property.
- Alley-loaded residential prototypes can be used to improve the pedestrian experience along street frontages.
- By moving garage access to alleys, the street-facing facade of homes is more visually engaging.
- Alleys shall comply with standards included in the City of San Diego Street Design Manual and the Municipal Code. An example cross-section for a typical Alley is included in [Figure 4.18, Typical Cross-Section for Private Drive or Alley](#).

| SPECIFICATIONS | |
|--|---|
| Based on the City of San Diego Street Design Manual (March 2017 Edition) | |
| Private Drives Specifications | |
| Minimum Width | 24 feet |
| Design Speed | 25 miles per hour |
| Modifications to Street Design Manual (Refer to Section 7.9) | <ol style="list-style-type: none"> 1. Minimum 4-foot contiguous sidewalk shall be included on at least one side. 2. Class III shared lane bicycle facilities shall provide connectivity to Class II bike lanes or Class I bike paths. |

| SPECIFICATIONS | |
|--|-------------------|
| Based on the City of San Diego Street Design Manual (March 2017 Edition) | |
| Alleys Specifications | |
| Minimum Width | 20 feet |
| Design Speed | 15 miles per hour |

4.5.15 – Emergency Vehicle Access Roads

- An emergency vehicle access road is a designated route designed to facilitate the swift response of fire department vehicles to emergencies.
- This road can either be a public street or a private roadway.
- The primary emergency vehicle access road for the Specific Plan area will be private, shown as Segment 18 in [Figure 4.1, Street Classifications](#), but it includes easements allowing for utilities, emergency access, and pedestrian access.
- In times of emergency, this route can serve as an exit pathway for Planning Areas 19, 21, and 22.
- A gate and Knox Box will be in place to prevent unauthorized vehicle usage.
- The pedestrian access will be to the perimeter trail as described in Section 5.7.2, Perimeter Trail.
- Landscaping and/or installation of irrigation is prohibited immediately adjacent to any proposed emergency vehicle access roads to ensure habitat continuity.
- The emergency vehicle access road will adhere to the standards outlined in the City of San Diego Fire-Rescue Department’s Policy on Fire Access Roadways. Refer to [Section 7.9, Supplemental Development Regulations](#).

SPECIFICATIONS

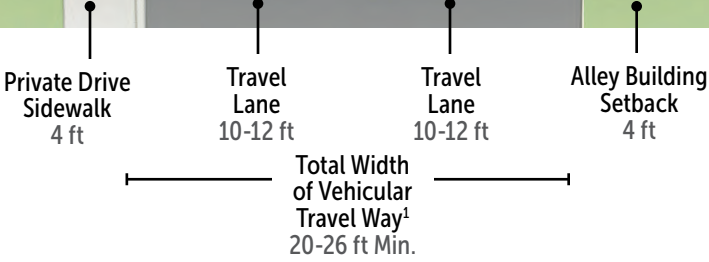
Based on the City of San Diego Fire-Rescue Department’s Policy on Fire Access Roadways

| | |
|---------------|-------------------|
| Minimum Width | 20 feet |
| Design Speed | 15 miles per hour |

4.5.16 – Secondary Emergency Vehicle Access Road

- A secondary emergency vehicle access road, shown as Segment 32, will be required before the 201st dwelling unit. Refer to [Section 7.9, Supplemental Development Regulations](#).
- A secondary emergency vehicle access road is included with VTM-1 as part of Phase 1. The portion of the road within the Specific Plan area will be constructed from the eastern terminus of East Beyer Boulevard (at the intersection of Beyer Boulevard and Caliente Avenue), extending south along the future alignment of South Caliente Avenue. The road will then continue outside of the Specific Plan area to the southwest along an existing utility road, connecting to Rail Court, as shown in [Figure 4.1, Street Classifications](#).
- A gate and Knox Box will be located at the entrance of the secondary emergency vehicle access road and relocated as needed during development of the subsequent phases.

Figure 4.18 – Typical Cross-Section for Private Drive or Alley



Notes:
1. Includes 6-inch curb.
* Section represents a typical condition.

A green-tinted photograph of a park path. In the foreground, a paved path curves to the right. Three people are walking away from the camera on the path. The person in the middle is walking a white dog on a leash. To the left of the path, there are several tall, black, curved street lamps. In the background, there are trees and a residential building. The overall scene is peaceful and well-maintained.

05

PARKS, TRAILS &
OPEN SPACE

5.1 – OVERVIEW

Southwest Village is envisioned with a mixed-use Village Core with neighborhoods that are interwoven via a series of parks, open space, trails, and paseos. Southwest Village will also be linked to the surrounding areas in Otay Mesa via connections to the regional trail network. Creation of a recreational, healthy, and active lifestyle-focused community is a fundamental component of Southwest Village. A comprehensive framework for proposed parks, connections to regional open space, and provision of trails and sidewalks is shown in [Figure 5.1, Parks and Trails](#). Development will be subject to the park requirements in place at permitting.

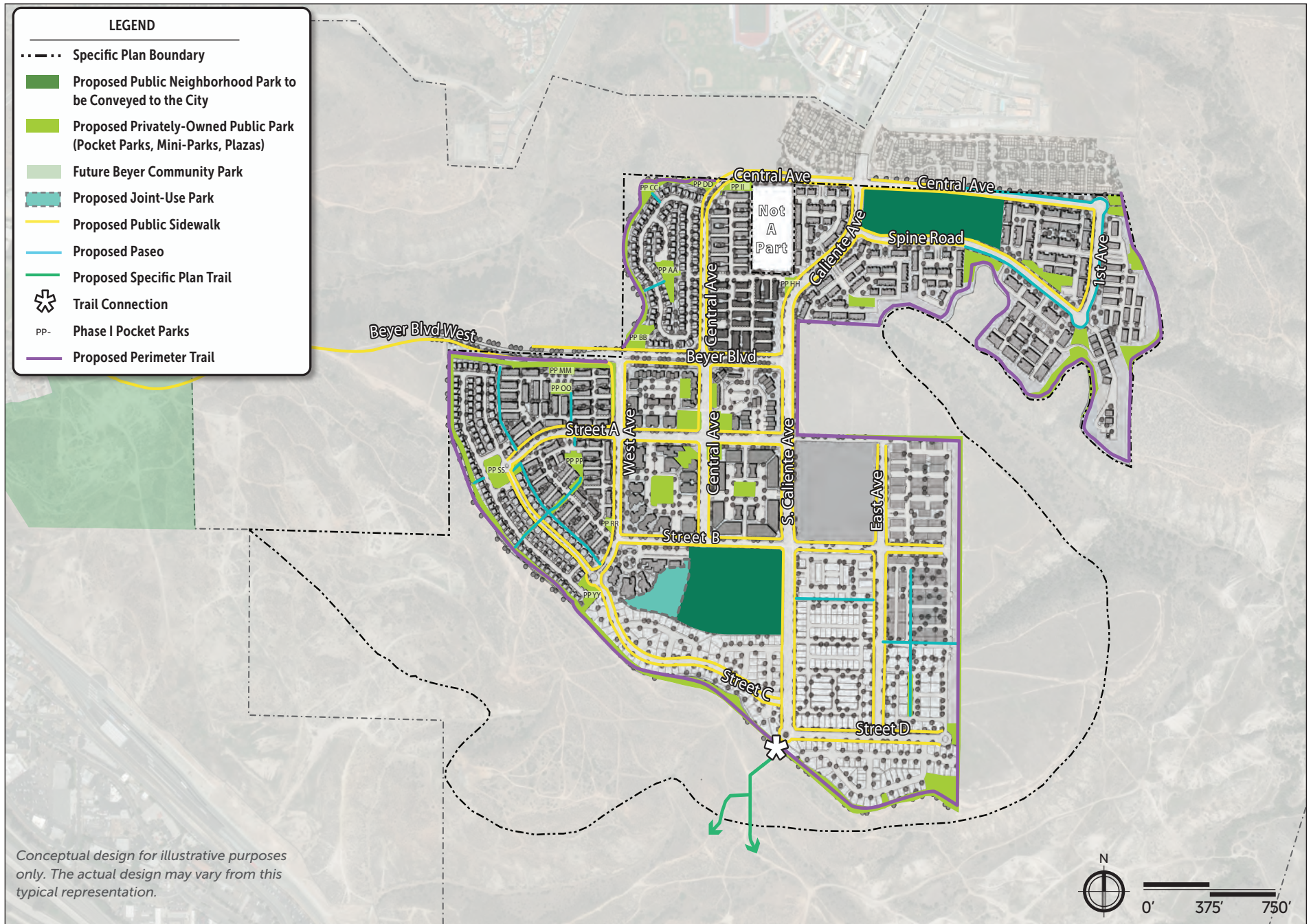
This chapter of the Specific Plan describes the framework for parks and other recreational opportunities within the Specific Plan area and the concept for siting and connecting parks and trails.

The Otay Mesa Community Plan, the Multiple Species Conservation Program (MSCP), Multi-Habitat Planning Area (MHPA), the Vernal Pool Habitat Conservation Plan (VPHCP), and the steep canyons in the Specific Plan area are vital elements shaping the Specific Plan and its development concept. This chapter guides the development of parks, trails, paseos, and other recreation opportunities and preservation of open space in the Specific Plan area.

- Trails, paseos, and sidewalks will include street furniture, lighting, and other recreational amenities.
- The proposed perimeter trail will be ADA accessible.

- Approximately 35 acres of interconnected publicly-owned and privately-owned community parks, neighborhood parks, pocket parks, and mini-parks
- Approximately 5 miles of trails to provide for interconnected neighborhoods, enhanced recreational opportunity, access to parks in Southwest Village and connections to Beyer Community Park and Grand Park
- Approximately 185 acres of surrounding natural open space, including 60 acres of preserved open space

Figure 5.1 – Parks and Trails



5.2 — PARKS OVERVIEW

Southwest Village will include a variety of parks to provide passive and active recreation opportunities throughout the community to create an interwoven recreational fabric. A variety of park opportunities may be provided, including neighborhood parks, mini-parks, pocket parks, paseos (linear parks), and plazas. Per the City of San Diego Parks Master Plan - Parks for All of Us, pocket parks are typically less than one acre, often found in residential developments; mini parks are approximately 1 to 3 acres, typically include small multi-purpose courts and landscaping; neighborhood parks typically serve a neighborhood of approximately 1/2-mile radius; and community parks are large parks typically serving one or more communities.

Southwest Village provides recommended locations for parks within each planning area, but defers to subsequent development approvals for each planning area to ensure that recreational value-based parks and trails are provided concurrently with each phase of development. The concept outlined as part of the Specific Plan provides linkages between parks through a system of paseos, multi-use paths, trails, sidewalks, and bike lanes, and provides connections between the village core and surrounding neighborhoods.

5.3 — RECREATION VALUE POINTS

Park amenity enhancements will be provided according to a recreational value point-based standard. The value point-based parks requirement is based on a scoring of recreation amenities, space for programmed activities, connectivity to the mobility network, and other factors. Each park amenity enhancement has an identified point value according to the scale, recreational and social value, and connectivity to the mobility network. The planned parks, paseos, and recreational trails need to comply with San Diego Municipal Code requirements to satisfy population-based park requirements.

5.4 — PARK TYPES

The neighborhood park sites will be conveyed to the City, while pocket parks, mini-parks, plazas, and trails will remain in private ownership with private maintenance and a recreation easement to allow for public use.

5.4.1 — Neighborhood Parks

The Southwest Village is anchored by two neighborhood parks located within the central and northern areas of the Specific Plan area to provide convenient access for community gathering areas and social activities. As indicated in [Figure 5.1, Parks and Trails](#), the proposed 10.5-acre neighborhood park in Planning Area 17 is adjacent to the school site on Planning Area 16 to the west, and the Village Core to the north. The neighborhood park would provide recreation amenities such as ball fields and internal pathway connections, and could be a joint-use facility for the adjacent school. The proposed 7.6-acre neighborhood park, located within the northern portion of the development in Planning Areas 2 and 3, would include recreational amenities such as hardcourt areas and sports fields.

Together, these two proposed neighborhood parks will encompass 18.1 acres and will be conveyed to the City upon construction. The City will then own and maintain these two parks. Both parks will be required to go through a General Development Plan process that requires public input into the design. The 10.5-acre neighborhood park and the 7.6-acre neighborhood park will be deeded to the City for ownership and maintenance. The 10.5-acre neighborhood park in Planning Area 17 can be a joint-use facility with the adjacent proposed school. A Joint Use Agreement between the City and the SYSD would be needed for shared use of a school's recreational facilities.

5.4.2 — Pocket Parks, Mini-Parks, Plazas, and Trails

The Specific Plan recommends locating parks within each planning area but defers to subsequent development approvals for each planning area to ensure that qualifying parks are provided concurrently with each phase of development.

Privately owned and maintained public parks, such as pocket parks and mini-parks, are planned throughout the community, offering neighborhood gathering places. Additional park amenities such as children’s play areas, shaded seating areas, and dog parks will be provided with the other parks in the Specific Plan area. Each park contains amenities to accommodate the diverse needs and desires of the community and reinforce the aesthetic character of Southwest Village.

A cohesive system of public paseos, pedestrian nodes, and trails connects these parks and other community destinations to provide safe and direct access to the parks and serve as the interconnected fabric of the community. A perimeter trail will surround the entire Southwest Village, providing connections to adjacent neighborhoods. Trail amenities and enhancements with a recorded recreation easement will provide innovative recreational and social opportunities for the public to serve the modern-day recreational, social, physical, and emotional lifestyle needs of the Southwest Village community. These trail amenities and enhancements with a recorded recreation easement will provide equivalent population-based park acreage for the Southwest Village.

5.5 — PARK PHASING

Southwest Village’s parks are anticipated to be developed in seven phases associated with dwelling unit thresholds, per [Section 7.13, Phasing](#), within each Planning Area as specified in [Table 5.1, Parks Phasing](#). Table 5.1, Parks Phasing, summarizes the implementation of the park program for each planning area. The park designations identified in [Figure 5.1, Parks and Trails](#), correspond to the park designations provided in [Table 5.1, Parks Phasing](#). This Specific Plan does not require that phases occur in any order. Phasing may occur in any order, and more than one phase may occur at one time, provided that the necessary parks and recreational facilities are provided concurrently as specified with each phase(s) of development. Refer to [Section 7.9, Supplemental Development Regulations](#), for the Recreation Value Points Phasing requirements.

[Table 5.1, Parks Phasing](#), identifies the usable park acreage to be provided in each phase. Usable park acreage is defined in the General Plan as a graded pad not exceeding two percent rough grade, as required to provide for active recreational programs; or gently sloping land not exceeding ten percent grade for unstructured public recreational activities, unconstrained by environmental restrictions that would prevent its use as a park and recreation facility, free of structures, or easements. The allowable number of useable acres exceeding two percent grade at any given park site would be determined on a case-by-case basis by the City. Table 5.1 also includes the estimated recreational value points required for each phase.

5.6 — PARK VIGNETTES

In addition to the concept plan for the overall layout of parks and open space within the Southwest Village, additional vignettes have been provided to illustrate representative concepts of the different types of parks that are anticipated to be provided as development occurs. Vignettes for five park typologies are shown in [Figures 5.2 through 5.6](#). The conceptual location of parks and recreational amenities is indicated on [Figure 5.1, Parks and Trails](#). Vignettes are for illustrative purposes only and are intended to guide future park amenities while also providing for flexibility at implementation, based on public input during the General Development Plan process. The conceptual park typology plans serve to represent generalized programmatic elements that would be provided. The final park design may vary and will not require an amendment to this Specific Plan.



Example photos of similar park types.

Table 5.1 – Parks Phasing

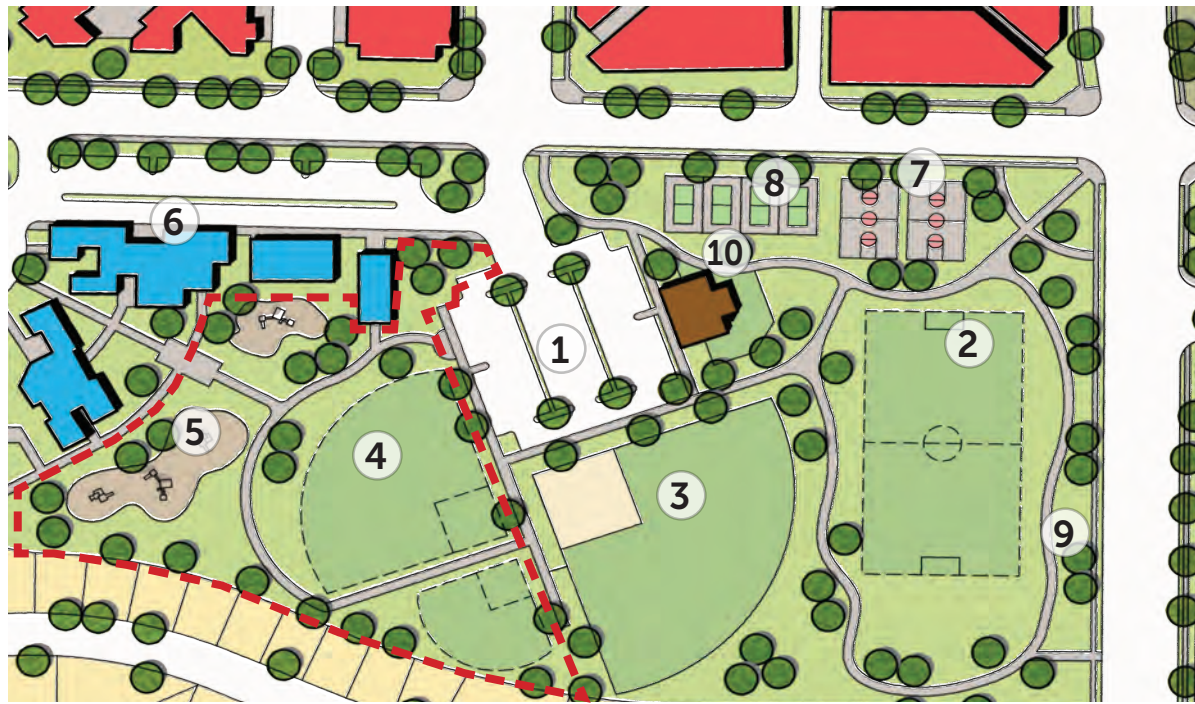
| Phase | Summary | Estimated Recreational Value Points Required Based on DUs |
|--------------|---|---|
| 1 | Phase 1 will provide a series of pocket parks and paseos and a perimeter trail with amenities. These amenities will include active recreational opportunities. Approximately 4.3 acres of pocket parks may occur in Phase 1. | 417 |
| 2 | Phase 2 will provide a 10.5-acre neighborhood park, a 6.2-acre school site, with an opportunity for 2.6-acre joint-use fields, pocket parks, paseos, and continuation of the perimeter trail with recreational opportunities and amenities. Approximately 10.5 acres of pocket parks may occur in Phase 2. | 270 ¹ |
| 3 | Phase 3 will provide a mini park in Planning Area 28, adjacent to Phase 3, south of Spine Road, as well as the opportunity for pocket parks, paseos, and continuation of the perimeter trail. Approximately 2 acres of pocket parks may occur in Phase 3. | 260 |
| 4 | Phase 4 may provide a 7.6-acre neighborhood park, as well as the opportunity for additional pocket parks, paseos, and continuation of the perimeter trail. A school overlay zone is included as a secondary site for a future elementary school. If a school is not built on Planning Area 7, the site would default to residential land use. | 122 |
| 5 | Phase 5 is adjacent to the 10.5-acre neighborhood park to the west in Planning Area 17. Phase 5 may provide paseos and pedestrian connections, as well as the opportunity for pocket parks. | 97 |
| 6 | Phase 6 may provide continuation of the perimeter trail, pedestrian connections, and a pocket park. | 85 |
| 7 | Phase 7 may provide pocket parks within the village core, pedestrian and mobility network enhancements, and recreational amenities. Approximately 3.0 acres of pocket parks may occur in Phase 7. | 376 |
| Total | | 1,627¹ |

Key Map



¹ If the SYSO determines a school is no longer needed on Planning Area 16, the site will default to Medium Density Residential land use designation with a maximum of 136 dwelling units, and thus require approximately 43 additional recreational value points.

Figure 5.2 – Neighborhood Park Concept 1 (A Joint-Use Opportunity with School)



- ① Opportunity for shared parking for the school and the neighborhood park
- ② Multipurpose Field
- ③ Baseball Field
- ④ Softball Field
- ⑤ Park Amenities
- ⑥ School
- ⑦ Basketball Courts
- ⑧ Pickleball Courts
- ⑨ Trails and paths to provide connections
- ⑩ Recreation Center
- Conceptual Joint Use Boundary

Conceptual design for illustrative purposes only. The actual park design will be designed per Council Policy 600-33. School design will be designed per school district standards.

Figure 5.3 – Neighborhood Park Concept 2



- 1 Bocce Ball
- 2 Kids Play Area
- 3 Tennis / Pickleball Courts
- 4 Basketball Courts
- 5 Internal Parking
- 6 Soccer Field
- 7 Medium-Density Residential
- 8 Trails and paths to provide connections

Conceptual design for illustrative purposes only. The actual park design will be designed per Council Policy 600-33.



Example photos of neighborhood parks.

Figure 5.4 – Mini-Park Concept



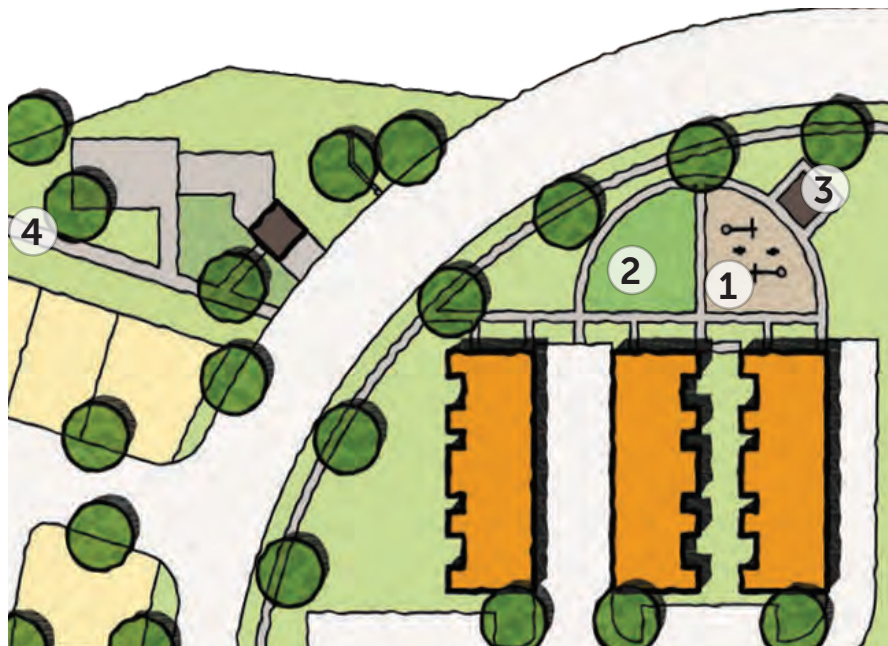
- 1 Children’s Play Area with Seating
- 2 Dog Park Area
- 3 Connection to Trail System
- 4 Open Turf Area
- 5 School

Conceptual design for illustrative purposes only. The actual park design will be designed per Council Policy 600-33.



Example photos of mini-parks.

Figure 5.5 – Pocket Park Concept



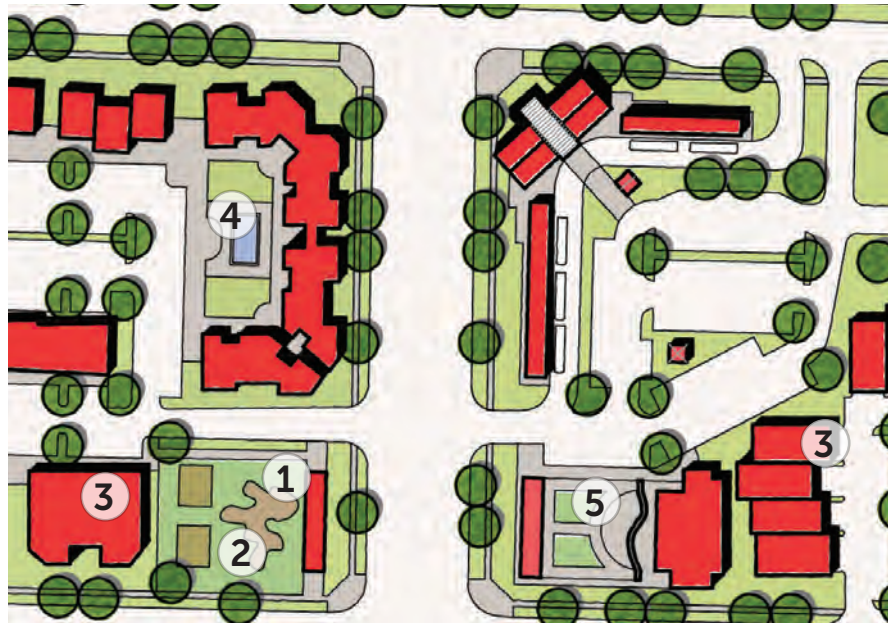
- 1 Children's Play Area
- 2 Turf Area
- 3 Picnic Tables
- 4 Open Space Trail Connection

Conceptual design for illustrative purposes only. The actual park design will be designed per Council Policy 600-33.



Example photos of pocket parks.

Figure 5.6 – Plaza Concept



- 1 Trellis
- 2 Sitting Area
- 3 Mixed Use
- 4 Water Feature
- 5 Planters

*Conceptual design for illustrative purposes only.
The actual park design will be designed per
Council Policy 600-33.*

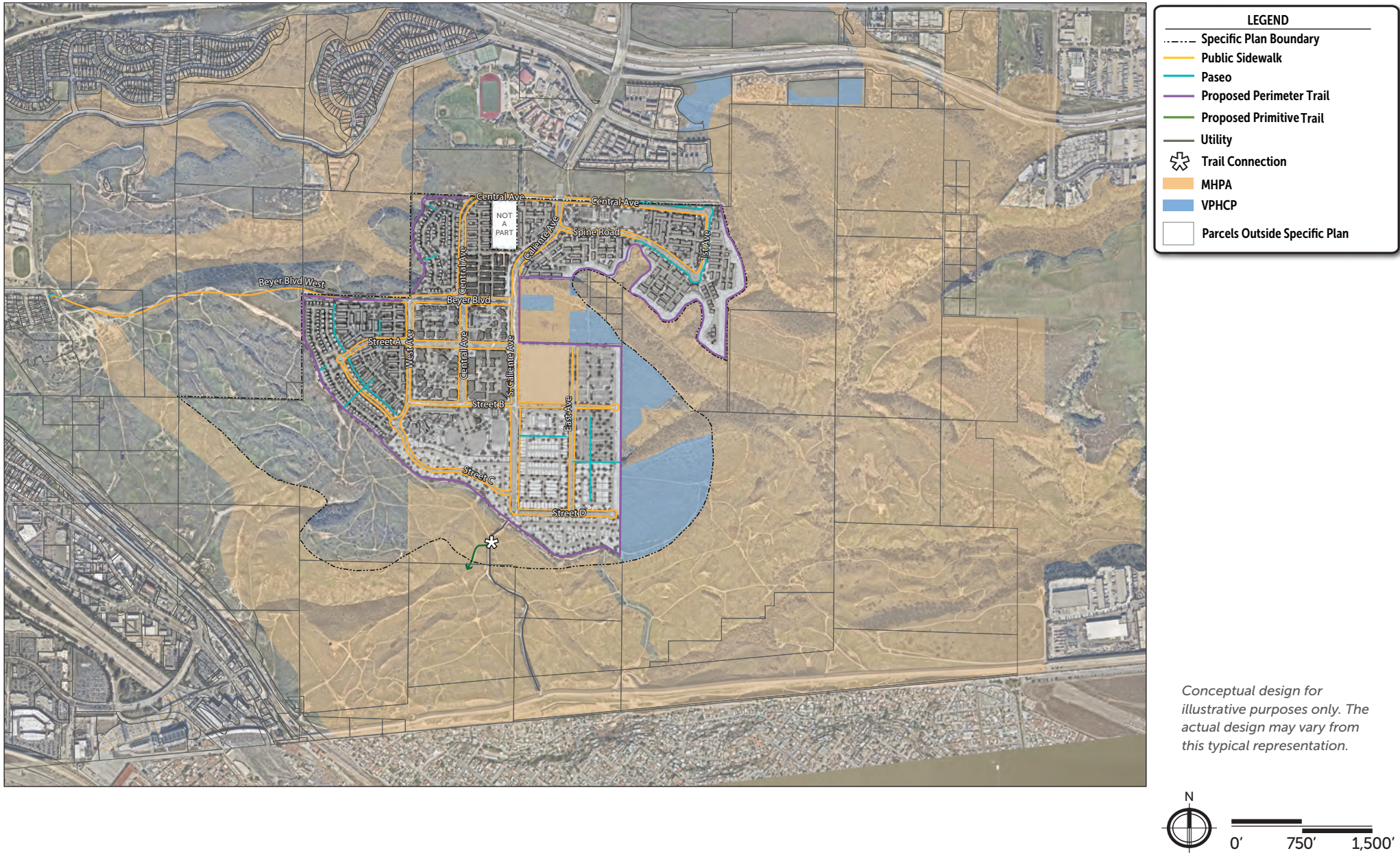


Example photos of plazas.

5.7 – TRAILS OVERVIEW

- Southwest Village will include a connected network of trails, sidewalks, and other pedestrian facilities, as shown in *Figure 5.7, Trail Network*, that will provide two key purposes:
 - » Connected mobility network for walking and biking; and
 - » Enhanced recreational opportunities.
- The trails network concept outlined as part of this Specific Plan provides linkages through the entire Specific Plan area and beyond through a system of paseos, multi-use paths, trails, sidewalks, and bike lanes, and provides connections between the Village Core and surrounding neighborhoods.
- Perimeter trails, paseos, and sidewalks will include street furniture, lighting, and other recreational amenities.
- Streets will be designed with sidewalks lined with landscape treatments, and public streets will be lined with trees and include pedestrian and Class I bike paths and/or Class II buffered bike lanes.
- Moderate-use trails and primitive trails will provide walking, jogging, and hiking opportunities in a natural environment.
- The primitive trails will be designed to provide connections from Southwest Village to the surrounding Otay Mesa Community Plan trail system.
- The trails identified in the Otay Mesa Community Plan are shown in *Figure 5.7, Trail Network*.
- All trails satisfying City park requirements will be available for use by the public with the recording of recreation easements.

Figure 5.7 – Trail Network



5.8 – TRAIL TYPOLOGY

The trail typologies identify different trail facilities and design policies for trails developed as part of the Southwest Village Specific Plan. The typologies have been developed based on the Otay Mesa Community Plan and Appendix K of the City’s Consultant’s Guide to Park Design & Development.

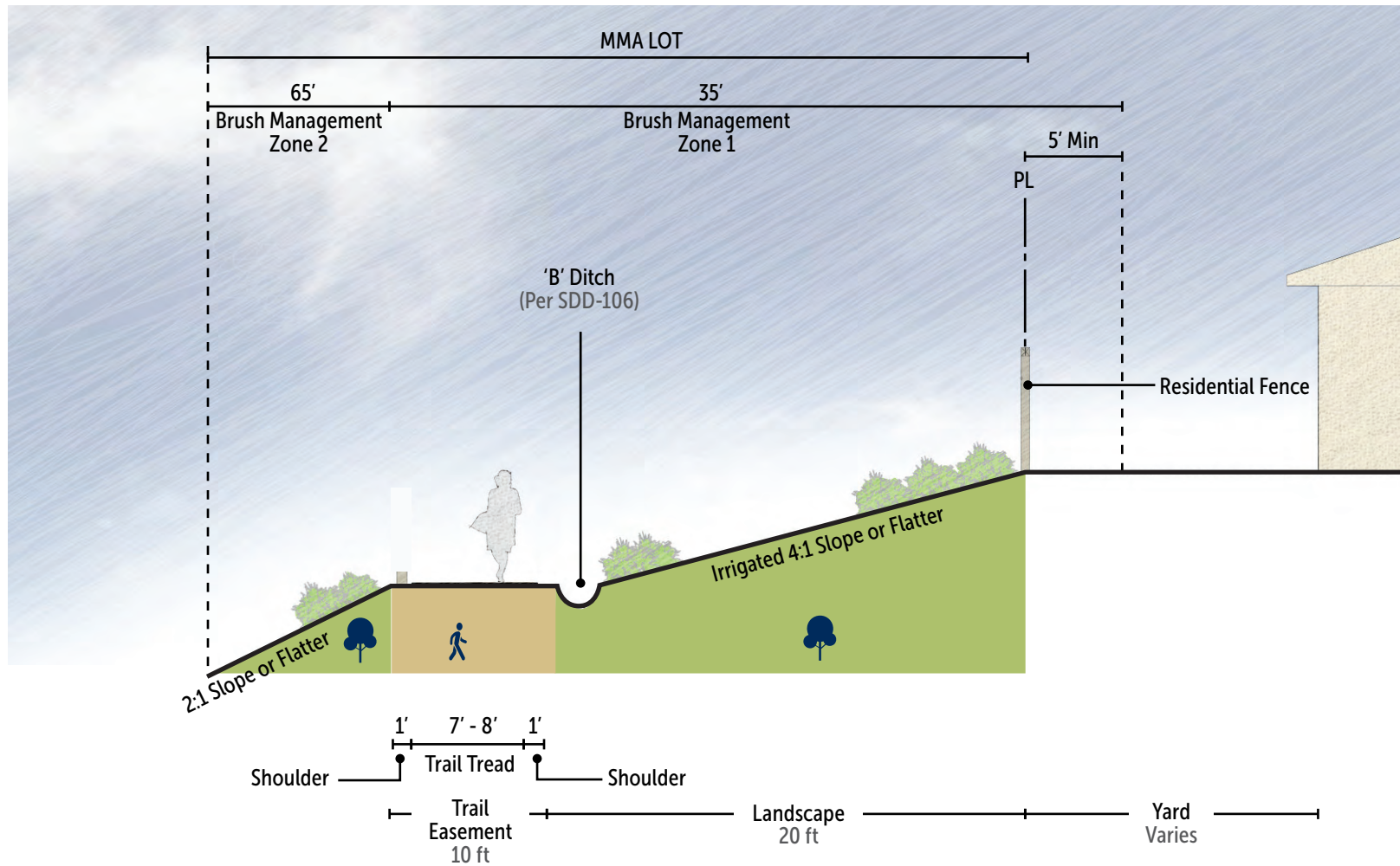
5.8.1 – Bike Lanes and Sidewalks

Bike lanes and sidewalks serve as the foundation for the mobility network in Southwest Village. For more information about bike lanes and sidewalks see [Section 4.3, Bicycle Network](#) and [Section 4.4, Pedestrian Network](#).

5.8.2 – Perimeter Trails

- Trails are planned around the perimeter of Southwest Village to provide a key recreational trail as well as increase access throughout the community for pedestrians and bicycles.
- The perimeter trail would provide a transition between the developed area of Southwest Village and the surrounding open space areas.
- The perimeter trail would have a natural surface that may include tread improvements such as stabilized decomposed granite. Ideally, the trail would sit below grade from the development to increase privacy to surrounding residents and enhance the feeling that the trail is connected to open space areas.
- An example cross-section showing the components of a perimeter trail is shown in [Figure 5.8, Perimeter Trail Cross-Section](#).
- Refer to [Section 7.9, Supplemental Development Regulations](#), for perimeter trail dimensions, brush management, and other requirements.

Figure 5.8 – Perimeter Trail Cross-Section



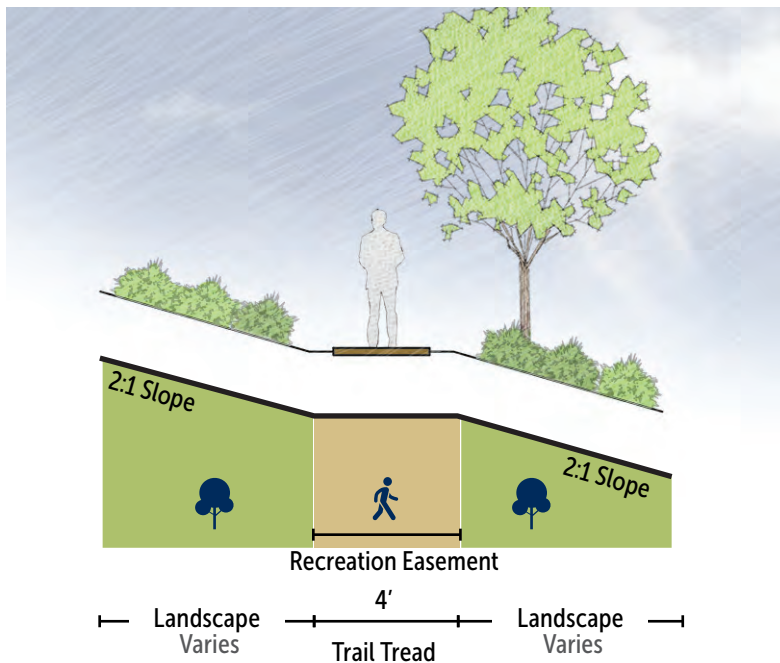


Example photo of perimeter trail.

5.8.3 – Primitive Trails

- Primitive trails would have a maximum width of 4 feet; however, actual trail widths may be less than 4 feet where constrained by sensitive resources.
- The minimum base is to accommodate maintenance needs, bi-directional travel, and provide safe passing space.
- These are trails that see limited use, are usually more difficult, with grades that may exceed trail standards, and are primarily for recreational users.
- Primitive trails can be located within the Multi-Habitat Planning Area (MHPA).
- An example cross-section showing the components of a primitive trail is shown in [Figure 5.9, Primitive Trail Cross-Section](#).

Figure 5.9 – Primitive Trail Cross-Section



- The Specific Plan has two types of Primitive trails:
 - » Proposed Primitive Trails - Type A are to be completed under Phases 1 and 2 by private ownership as shown in [Figure 5.7, Trail Network](#).
 - » Community Plan Primitive - Type B are trails to be further investigated by the City, confirmed with the wildlife agencies, and constructed by future developers throughout the implementation of the Specific Plan.
- Refer to [Section 7.9, Supplemental Development Regulations](#).

Primitive Trails Policies:

1. Design trails within the Multi-Habitat Planning Area (MHPA) to be consistent with the Multiple Species Conservation Program (MSCP) and trail standards and design policies of the City of San Diego’s Park and Recreation Department’s Consultant’s Guide to Park Design and Development.
2. Conduct further study to ensure trails in the MHPA areas avoid sensitive resources such as wetlands, vernal pools, and sensitive plant species before trail implementation, as the trail alignments shown are conceptual.
3. As primitive trails are formalized in the Specific Plan area, close non-compliant trails within a 50-foot buffer on each side of the primitive trail (100-foot total) to limit public access to unauthorized trail segments.
4. Design primitive trails for pedestrian use only.



Example photo of primitive trails.

5. Allow for passive recreation, including walking, jogging, hiking, and non-motorized mountain biking use.
6. Do not allow for equestrian use and motorized bicycles (E-bikes); however, where accessible, motorized wheelchairs would be allowed.

5.8.4 – Utility Trail

- The planned utility trail utilizes an existing service road that will provide recreational trail corridors and will be a destination-oriented utility trail for pedestrians and cyclists. The service road was originally constructed for utility access and Border Patrol and will remain active for these uses.
- The secondary Emergency Vehicle Access Road will ultimately be built following the existing service road. Upon completion, the access road will remain active for utility maintenance personnel, park management staff (i.e., park rangers), Border Patrol, emergency responders, pedestrians, and cyclists.
- The width of a utility trail will be no less than 8 feet and no more than 20 feet.
- An example cross-section showing the components of a utility trail is shown in [Figure 5.10, Utility Trail Cross-Section](#).
- The tread surface should be graded annually, along with other minor repairs by utility companies and other agencies that use the utility trail as needed, before the construction of the Emergency Vehicle Access Road.
- Tread surfaces may be improved with the installation of surfacing material to reduce erosion and provide for trail sustainability.
- As shown in [Figure 5.7 Trail Network](#), the utility trail south of the community plan trail is for the use of pedestrians and bicyclists, utility companies, and other agencies.

5.8.5 – Non-Compliant Trails

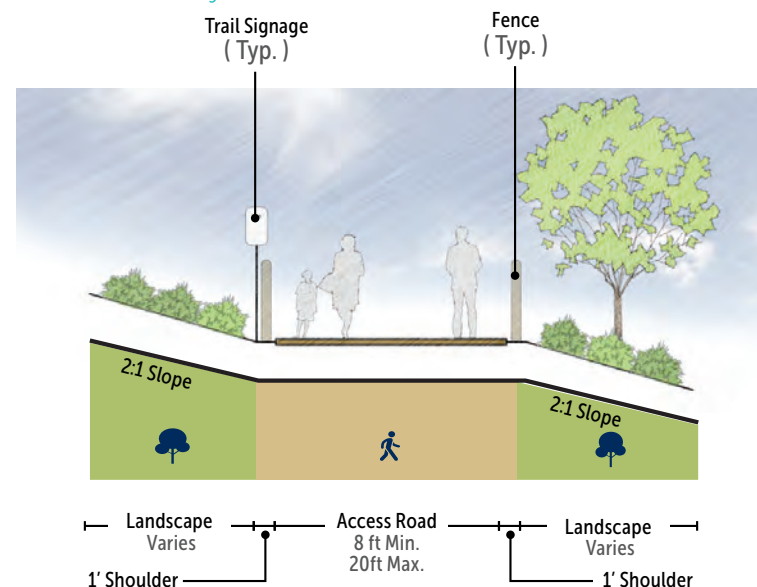
- Many existing or disturbed trails in Southwest Village are not compliant with City trail standards and are redundant, unsustainable, or potentially hazardous, and do not contribute to a sustainable trails system.
- Some of the existing or disturbed non-compliant trails will be closed and require rehabilitation and education efforts. The non-compliant trails will be closed off to the public.

Non-Compliant Trails Policies:

1. Install signage where appropriate to provide education on trail closures and restoration areas.
2. Closures may involve habitat restoration, placement of barriers, or other methods to prevent unauthorized trail use.

Refer to [Section 7.9, Supplemental Development Regulations](#), for implementation details.

Figure 5.10 – Utility Trail Cross-Section



5.9 – TRAIL AMENITIES AND ENHANCEMENTS POLICIES

Amenities that will enhance the pedestrian experience and increase the recreational opportunities will be integrated into the fabric of the community along pedestrian facilities. The amenities should significantly expand the types of recreational and social interaction opportunities and provide an innovative strategy towards serving the recreational, social, physical, and lifestyle needs of the Southwest Village. All trail amenities satisfying City park requirements will be available for use by the public with the recording of recreation easements.

Amenities can include community gardens and edible landscapes, physical activity equipment, bicycle amenities, pet amenities, play areas, seating, refuse bins, water fountains, lighting, interactive walls and art, wayfinding and gateway signage, and interpretive signage. The use of community gardens and edible landscapes provides intergenerational community members a place to play, educate, and practice healthy habits. Physical activity equipment ranges in maintenance levels and complexities, and provides the community with the opportunity to practice physical fitness at no cost. Bicycle amenities include, but are not limited to, bicycle parking racks, repair stations, and informational signage. These amenities encourage both safe bicycling habits as well as new ridership. Pet amenities provide designated areas for pet recreation and encourage responsible pet ownership. Creative, nature, and adventure play areas can come in many forms. These play areas provide visual interest as well as recreation opportunities for children.

- Incorporate seating, refuse bins, water fountains, and lighting as typical amenities.
- Use amenities that add interest and create a sense of place. Murals, public art, and interactive walls allow for community projects, physical fitness, and artistic expression in creative ways that reflect the community.

- Use wayfinding and gateway signage to inform the public of distances and directions to landmarks or trail heads, and the entrance of a neighborhood or distinct area.
- Incorporate an interpretive signage program to highlight the history of Otay Mesa and the specific resources found within Southwest Village. These signs can offer a public educational context of the surrounding environment while featuring fun, interactive activities for all generations.
- Incorporate amenities on perimeter trails, paseos, and along sidewalks in the Village Core where appropriate.
- Use additional types of amenities that reflect trends and innovation in outdoor recreation and social interaction.

Representative amenities and enhancements concepts are provided as a reference in [Figures 5.11 through 5.21](#). See Key Map below for locations of these trail types. Images and types of amenities are for illustrative purposes only and are intended to provide guidance while also allowing for flexibility at implementation.

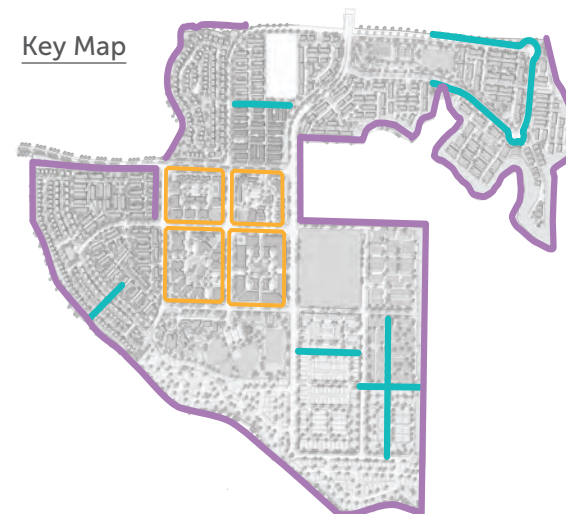


Figure 5.11 – Community Gardens and Edible Landscapes



Figure 5.12 – Physical Activity Equipment



Figure 5.13 – Bicycle Amenities



Figure 5.14 – Pet Amenities



Figure 5.15 – Creative, Nature, and Adventure Play Areas



Figure 5.16 – Seating



Figure 5.17 - Seating (Continued)

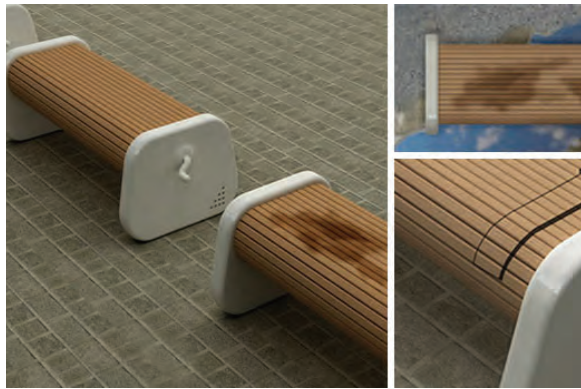


Figure 5.18 – Murals, Public Art, and Interactive Walls



Figure 5.19 – Refuse Bins, Water Fountains and Lighting



Figure 5.20 – Wayfinding and Gateway Signage



Figure 5.21 – Interpretive Signage



5.10 – OPEN SPACE OVERVIEW

Approximately 185 acres, 38 percent of the land included in the Specific Plan, will be preserved as open space. Some of the areas are already identified for resource conservation as part of the City's Multi-Habitat Planning Area (MHPA) or Vernal Pool Habitat Conservation Plan (VPHCP), other areas are undevelopable due to steep slopes or other hazards. Open space areas identified as part of the Southwest Village Specific Plan are adjacent to other existing and planned open space areas and would expand the areas included in the City's MHPA. Open space lands may allow for limited opportunities for recreation, such as trails and nature viewing.

The Specific Plan area boundary is conterminous with the existing MHPA boundary on the west, south, and east. A portion of the MHPA is within the Specific Plan area. Open Space within the Specific Plan area is shown on [Figure 5.22, Open Space Areas](#). The known mitigation lands would be implemented concurrently with phased development impacts. Since development would occur over time, required mitigation areas would be implemented in phases as detailed in the Southwest Village Biological Resources Report. Refer to the Biological Resources Report for details on the mitigation requirements and phasing approach for mitigation.

5.10.1 – Southeast Pump Station Overlay

- An approximately 2-acre area in the southeast portion of the Specific Plan area, at the terminus of Street D, is planned to include a pump station as part of the wastewater infrastructure necessary to support the development within the Southwest Village Specific Plan.
- The pump station area is located within and allowed as a covered activity as part of the VPHCP.

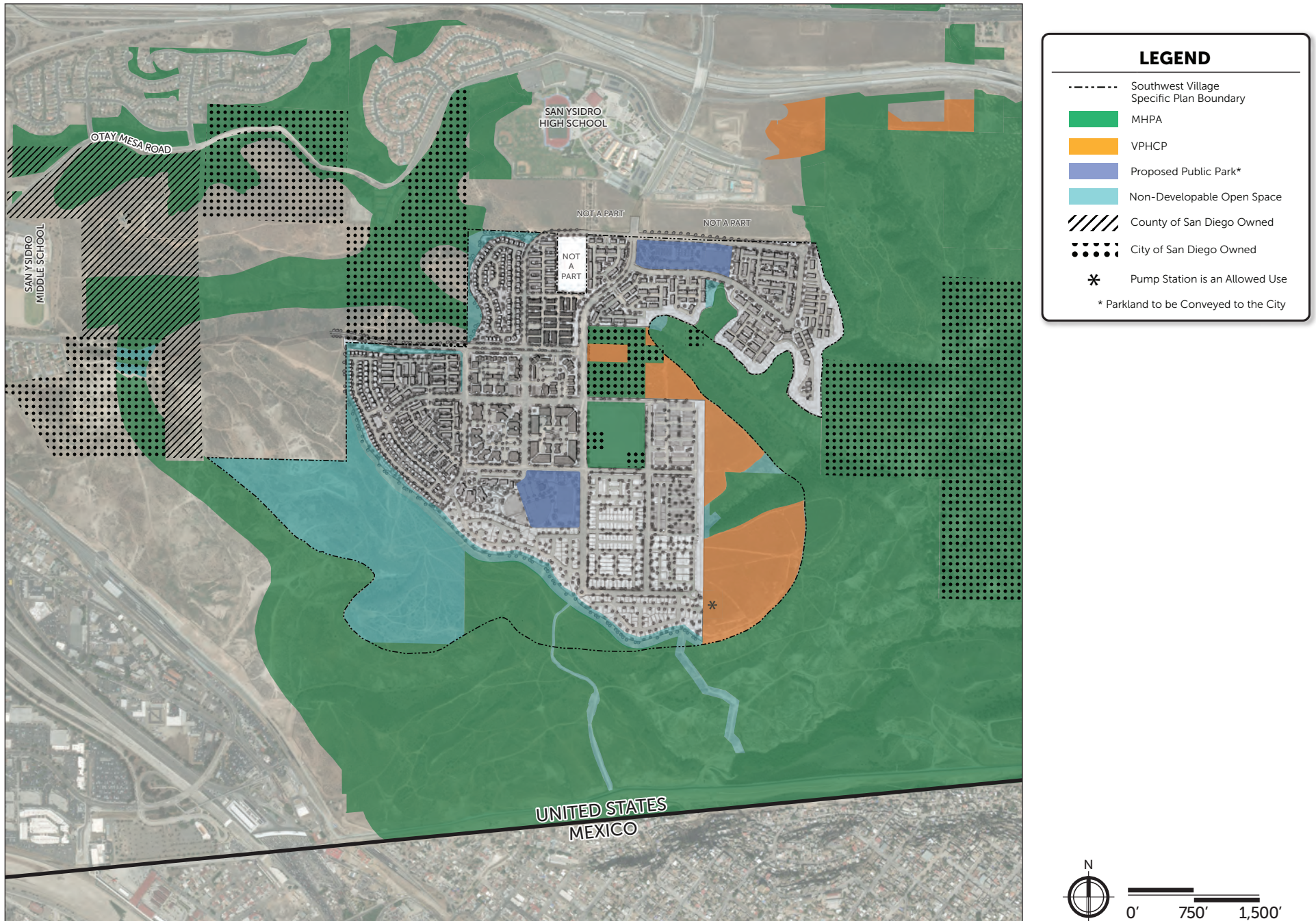
5.10.2 – Brush Management Zones

- Brush management is required in all base zones on publicly or privately owned premises that are within 100 feet of a structure and contain native or naturalized vegetation.
- Brush management zones help reduce fire hazards around structures and help firefighters protect life and property when fires occur.
- Alternative compliance from standard brush management zones may be granted within the Specific Plan area pursuant to the SDMC, where appropriate, based on fire load modeling of adjacent land.
- Brush management zones are prohibited in adjacent City-owned open space and designated mitigation lands.
- Brush Management Zone 1 is considered development footprint.
- Brush Management Zone 1 may occur on lands maintained by a Master Maintenance Association or a private property owner.
- Brush Management Zone 2 needs to be on lands maintained by a Master Maintenance Association and may not extend onto City-owned open space or land set aside for mitigation for environmental impacts.
- Refer to Section [7.9, Supplemental Development Regulations](#).



Southwest Village sits atop a mesa, defined by its sloping edges and the shallow bottoms of the canyons.

Figure 5.22 – Open Space Areas



5.10.3 – Wildlife Corridor Crossings

Beyer Boulevard West would be designed, constructed, and maintained to allow for wildlife movement through a wildlife overcrossing and three culverts under the roadway, as shown in [Figure 5.23, Beyer Boulevard West Wildlife Corridor Crossings](#), to the satisfaction of MSCP, the City Engineer, and the City Parks and Recreation Department. Refer to [Section 7.9, Supplemental Development Regulations](#).

Wildlife Overcrossing Policies

1. Locate a 32-foot by 60-foot wildlife overcrossing across Beyer Boulevard West, approximately 515 feet west of the Specific Plan area boundary in the location of existing high-use wildlife movement patterns through an existing drainage swale area consistent with the City MSCP Subarea Plan and Area Specific Management Directives for Otay Mesa.
2. Design each end of the overcrossing to mimic the existing topographic conditions and include flared entrances to encourage wildlife entry.
3. Revegetate the surrounding slopes with native vegetation to match the surrounding habitats.

Wildlife Under-crossing Policies

1. Locate three additional small animal under-crossing features where Beyer Boulevard West crosses conserved lands. The three under-crossings shall include a minimum 6-foot-tall culverts, ranging from 103 to 105 feet in length, and shall be installed to provide passage for small mammals between Moody Canyon and habitat areas to the south.
2. Design under-crossings with flares at the ends to encourage entry.

Wildlife Corridor Crossing Fencing Policies

1. Install wildlife fencing concurrently during the construction of Beyer Boulevard West.

2. Install fencing along the length of Beyer Boulevard West on both the north and south sides to prevent wildlife crossings along the roadway and to funnel wildlife toward the wildlife crossings.
3. Install a gate on the north and south sides of the roadway to allow for vehicular entry while keeping wildlife from entering the roadway near the western end of the proposed Beyer Boulevard West, where vehicular access is needed for an SDG&E easement.
4. Install chain-link (or similar exclusionary) fencing along the length of Beyer Boulevard West to funnel wildlife toward the culvert under-crossings and the wildlife overcrossing, while preventing wildlife from crossing the roadway.
5. Provide a 6- to 8-foot-tall fence to prevent wildlife from crossing the Beyer Boulevard roadbed where vehicles travel.
6. Install an 8-foot fence when located mid-slope and a 6-foot fence where the fence is located at grade or with a wildlife use area located downslope of the fence.
7. Install fencing that is buried 6 inches into the soil to prevent animals from burrowing under. Install a fine-mesh screen along the bottom two feet of the fence to prevent small animals from moving through it.

Wildlife Overcrossing Landscaping Policies

1. Utilize excavated native soils from the roadway grading to install three feet of native soil on the overcrossing and plant the overcrossing area with native plant species identified in the plant palette.
2. Use the following plant palette for the wildlife overcrossing:
 - » Coastal cholla (*Cylindropuntia prolifera*)
 - » California encelia/Bush sunflower (*Encelia californica*)
 - » Laurel sumac (*Malosma laurina*)
 - » Coast prickly pear (*Opuntia littoralis*)

- » Bladderpod (*Peritoma arborea*)
 - » Lemonade berry (*Rhus integrifolia*)
 - » Black sage (*Salvia mellifera*)
 - » Mojave yucca (*Yucca schidigera*)
 - » Purple needlegrass (*Stipa pulchra*)
 - » Small flowered needlegrass (*Stipa lepida*)
 - » Other species native to the Otay Mesa region may also be added to the planting palette with the approval of the City Biologist and Parks and Recreation resource management staff.
3. Place native bushes (such as lemonade berry and laurel sumac) found in the area that attain 6- to 8-foot heights along the sides of the overcrossing to screen the road and provide refugia.
 4. Incorporate micro-refugia (e.g., rock and wood structures) onto the overcrossing and undercrossing surface for small animal stopping points/shelters.
 5. Design native plant landscaping on the southern slope at the wildlife overcrossing with vegetation that would grow densely to deter human views toward the overcrossing and deter human use. Use native cacti and other uninviting species to deter human access.

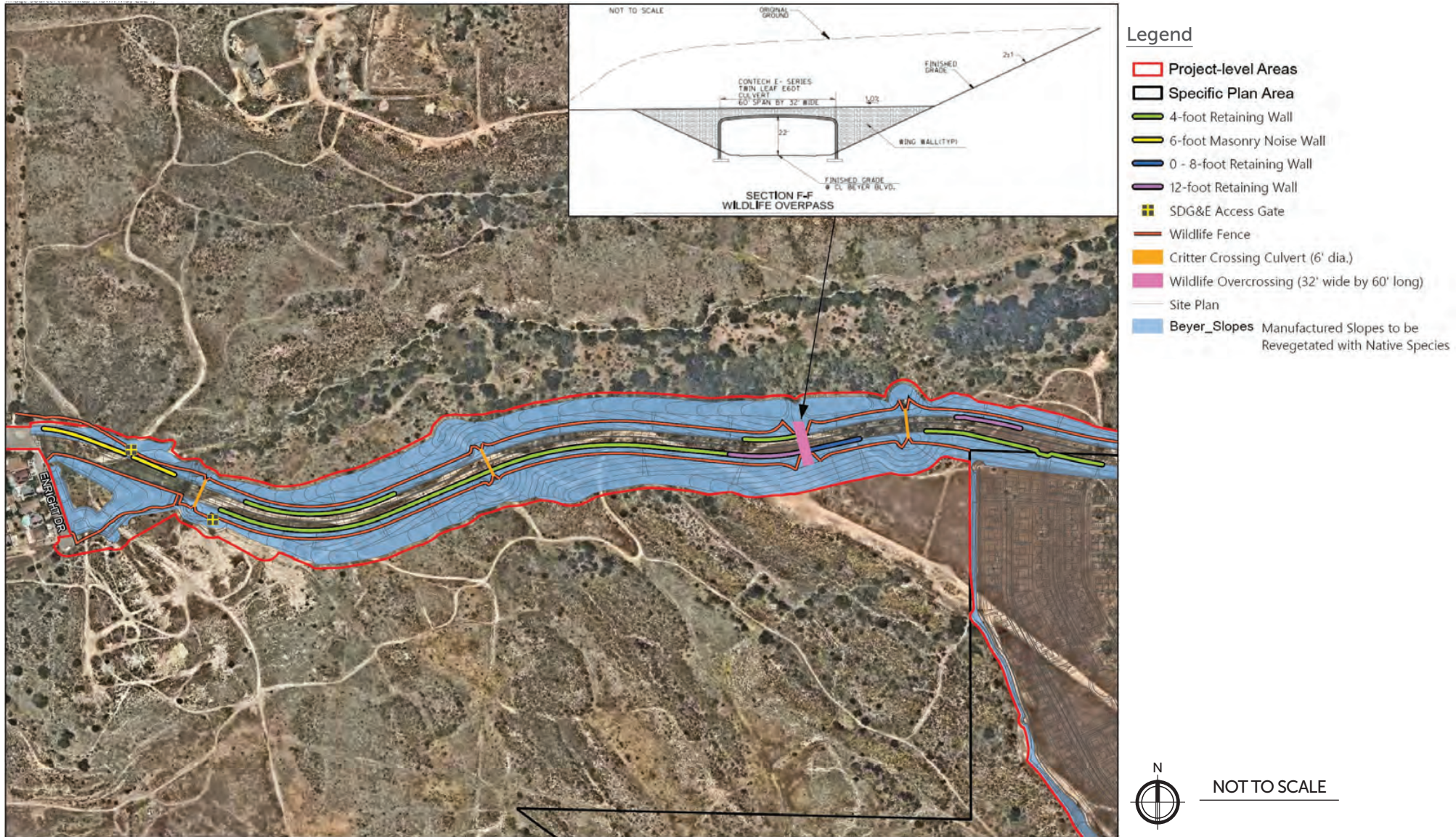
Wildlife Corridor Management Policies

1. An endowment would be provided by the applicant constructing Beyer Boulevard to fund the management and monitoring of the wildlife features for a 10-year period, in addition to ongoing funding in perpetuity to support regular maintenance and monitoring.
2. Implement the Long-Term Management and Monitoring Plan to ensure all the wildlife movement features proposed along Beyer Boulevard are monitored and managed for 10 years to evaluate and maintain the functioning of the wildlife crossings.
3. Coordinate with City Departments and the developer who would construct Beyer Boulevard West for the implementation and long-term management of the wildlife movement features.

5.10.4 – Bird Safe Glass

1. Use bird-safe glass to prevent bird collisions to the satisfaction of the MSCP, City Biologist, and City Engineer with glass or transparent panes adjacent to open space to reduce bird collisions.
2. Use bird-safe glass with ultraviolet reflective patterns visible to birds but transparent to the human eye, or etched or patterned glass that provides a visual barrier.
3. Use patterned or etched glass with vertical stripes or horizontal stripes consistent with the guidance provided in the USFWS publication *Low-Cost Methods to Reduce Bird Collisions with Glass* (dated June 4, 2021).
4. Refer [Section 7.9, Supplemental Development Regulations](#).

Figure 5.23 – Beyer Boulevard West Wildlife Corridor Crossings



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06

INFRASTRUCTURE

Dual 16"



6.1 — OVERVIEW

This section summarizes the requirements for water, wastewater, drainage, and stormwater, and other infrastructure to support the development of the Southwest Village. The Specific Plan provides an overall framework for utility infrastructure, such as water, stormwater, sewer, and electrical lines, to provide service.

6.2 — WATER

The Specific Plan area does not have existing potable water service; therefore, water facilities needed for service will mainly consist of extending the existing City of San Diego water distribution system and appurtenant facilities, as shown in *Figure 6.1, Water System within the Specific Plan Area*. Based on the projected demands and phasing considerations in the Southwest Village Water Study, the recommended water supply facilities outside of the Specific Plan area include:

- A 16-inch water main in Otay Mesa Place, Otay Mesa Road, and Beyer Boulevard from the Princess Park Pump Station will supply water to the Specific Plan area.

Based on the projected demands and phasing considerations, the recommended water distribution facilities within the Specific Plan area include:

- A 16-inch water line backbone loop through the buildout development site.
- A 16-inch water main extended north to Caliente Avenue and connected to the existing 16-inch water main.
- 12-inch water line loops extended from the 16-inch backbone system.

The estimated peaking factors for water demand, in accordance with the City's Facility Design Guidelines - Book 2, are as follows:

- The estimated maximum day demand for the project is 3,425,031 gallons per day (gpd) or 2,378 gallons per minute (gpm).

- The estimated peak hour demand is 7,874,832 gpd (3,171 gpm).

The fire flow requirements for the Southwest Village development, as set forth by the City's design criteria, are anticipated to vary by land use. A range of 2,000 gpm to 4,000 gpm for five hours is the predicted fire flow requirement for the project.

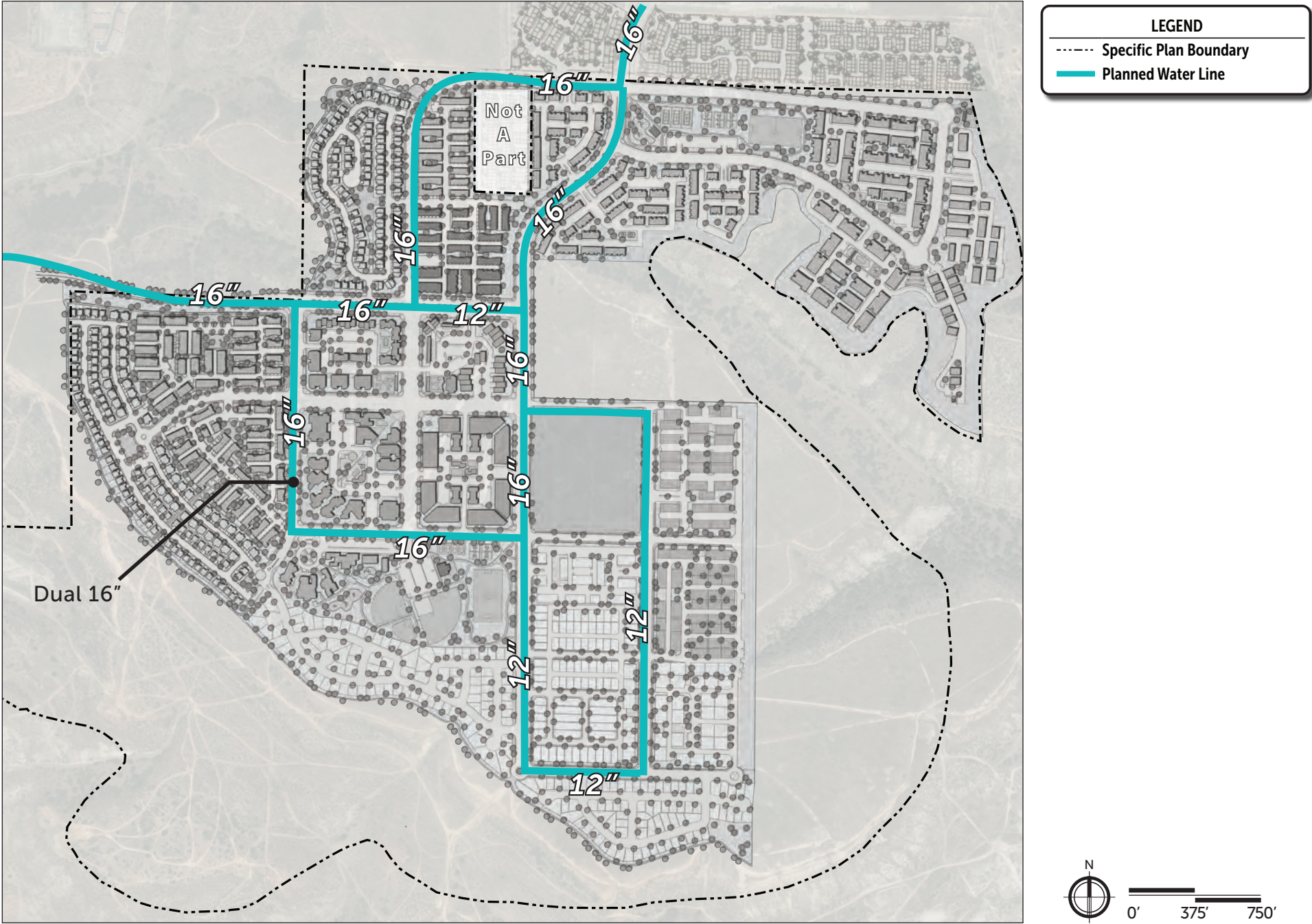
The Specific Plan area will be served by the City of San Diego Otay Mesa 680 Pressure Zone, which is a closed zone (completely pumped zone) and is supplied by three water booster pump stations and an emergency inter-district interconnect. Development within the Specific Plan area will require upgrades to the Princess Park Pump station.

The commercial fire flow is 2,000 - 4,000 gpm, and the total maximum day demand is 2,734 gpm. This demand would need to be always provided by at least two sources of supply, as this demand is greater than what can be supplied by a single water booster station.

Due to the varying elevations of the Specific Plan area, individual pressure regulators would need to be installed at all building services below an elevation of 496 feet to comply with the California Plumbing Code. The on-site potable water distribution for the Specific Plan area would result in a maximum static pressure range from 71 to 89 pounds per square inch, which is anticipated to serve the Specific Plan area by a single pressure zone (680 Zone).

The water facilities that would be extended and constructed in the Specific Plan area are expected to serve only the Specific Plan area. The Specific Plan does not assume that any future development in the vicinity of the Specific Plan area would utilize and extend the water distribution infrastructure beyond the Specific Plan area. Future development within the Specific Plan area would utilize the Lower Otay Treatment Plant and Clearwell Reservoir to meet the needed potable water storage.

Figure 6.1 – Water System within the Specific Plan Area



6.3 — WASTEWATER

The sewer facilities needed for service mainly consist of collection systems and lift stations within the Specific Plan area whose force main(s) would connect to the existing City of San Diego sewer system. The Specific Plan area does not have existing sewer service. Sewer service for the Specific Plan area would be provided by a combination of gravity flow and pumping the flow from future development within the Specific Plan area via two proposed sewer lift stations within the Specific Plan area to the existing City of San Diego public sewer system in South Beyer Boulevard, as shown in [Figure 6.2, Sewer System within the Specific Plan Area](#). The Specific Plan area would be connected to the Otay Mesa Trunk Sewer. Wastewater facilities within the Specific Plan area would be a combination of public and private facilities. Wastewater improvements outside the Specific Plan area would be public facilities and would be constructed in existing public streets and/or rights-of-way. The peak dry weather flow for the Southwest Village area would be 2,030,137 gpd (1,410 gpm), and the peak wet weather flow would be 3,755,754 gpd (2,608 gpm).

Based on projected demands and phasing considerations in the Southwest Village Sewer Study, the recommended wastewater facilities within the Specific Plan area include:

- Gravity sewer lines ranging from 8-inch to 18-inch diameter.
- Two sewer lift stations throughout the project.
- Force mains with a diameter of 6-inch to 8-inch conveying flow from the proposed on-site sewer lift stations to either other areas of the project site or off-site to the existing public sewer system.

Based on the projected demands and phasing considerations, the recommended wastewater facilities outside of the Specific Plan area include:

- An extension of the master planned Otay Mesa Trunk Sewer within Otay Mesa Road and Beyer Boulevard rights-of-way.
- A gravity sewer line in the Beyer Boulevard extension west of the Specific Plan area.

6.3.1 — Sewer System within the Specific Plan Area

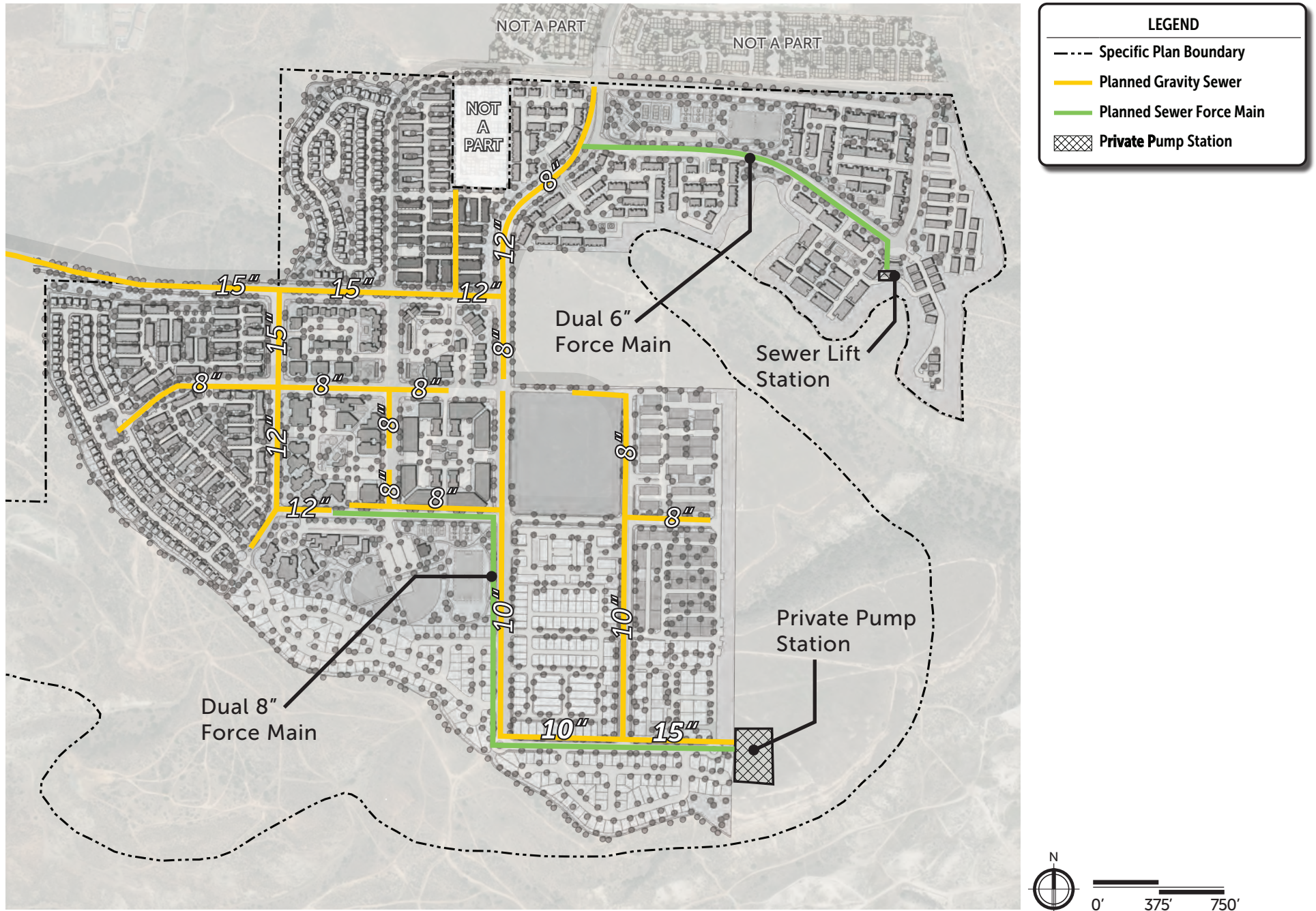
The sewer system within the Specific Plan area would be composed of 8-inch, 10-inch, 12-inch, 15-inch, and 18-inch gravity sewer piping; however, the entire Specific Plan area cannot be served by a gravity sewer system alone. The 18-inch gravity sewer piping would be needed for select segments on the western end of proposed Beyer Boulevard due to velocities being greater than 10 feet per second. The use of lift stations would be needed since the Specific Plan area is topographically positioned downhill of existing sewer facilities. The ultimate buildout of the sewer system configuration would result in one connection to an existing sewer main. This connection would be to an existing gravity sewer line west of the Specific Plan area in South Beyer Boulevard at the intersection of Old Otay Mesa Road. The Specific Plan area would use two lift stations, with an average flow of 411,926 gpd (286 gpm) for Lift Station 1, and 261,435 gpd (182 gpm) for Lift Station 2. The force mains of these two lift stations would discharge into the gravity sewer system within the Specific Plan area.

6.3.2 — Sewer System outside the Specific Plan Area

Since 2020, the City has implemented a basin-wide sewer improvement project that involves the construction of the new Otay Mesa Trunk Sewer line to convey the current and future sewer flows in the Otay Mesa sewer sub-basin. Portions of the Otay Mesa Trunk Sewer project have already been constructed.

Future development within the Specific Plan area would be responsible for certain improvements to the Otay Mesa Trunk Sewer along portions of Otay Mesa Road and Beyer Boulevard. The improvements to the Otay Mesa Trunk Sewer would involve the replacement of approximately 3,600 linear feet of existing gravity sewer with a 27-inch to 33-inch diameter PVC sewer line. Development within the Specific Plan area would share in the cost and construction of these improvements with other future development outside of the Specific Plan area.

Figure 6.2 – Sewer System within the Specific Plan Area



6.4 — DRAINAGE AND STORM WATER QUALITY

The drainage system design within the Specific Plan area is illustrated in [Figure 6.3, Drainage System](#). The Southwest Village drainage system is designed to utilize the property's natural drainage courses to the extent feasible. Anticipated locations of master storm drain facilities and outfall locations are also shown in Figure 6.3, although the exact siting of these facilities would be determined at the time future development applications are submitted. Storm drain lines, channels, detention basins, water quality treatment features, and other components of the drainage system shown in Figure 6.3 are based on the existing drainage patterns of the Specific Plan area, where feasible, and the anticipated needs of the drainage system.

6.4.1 — San Ysidro Landslide Complex Considerations

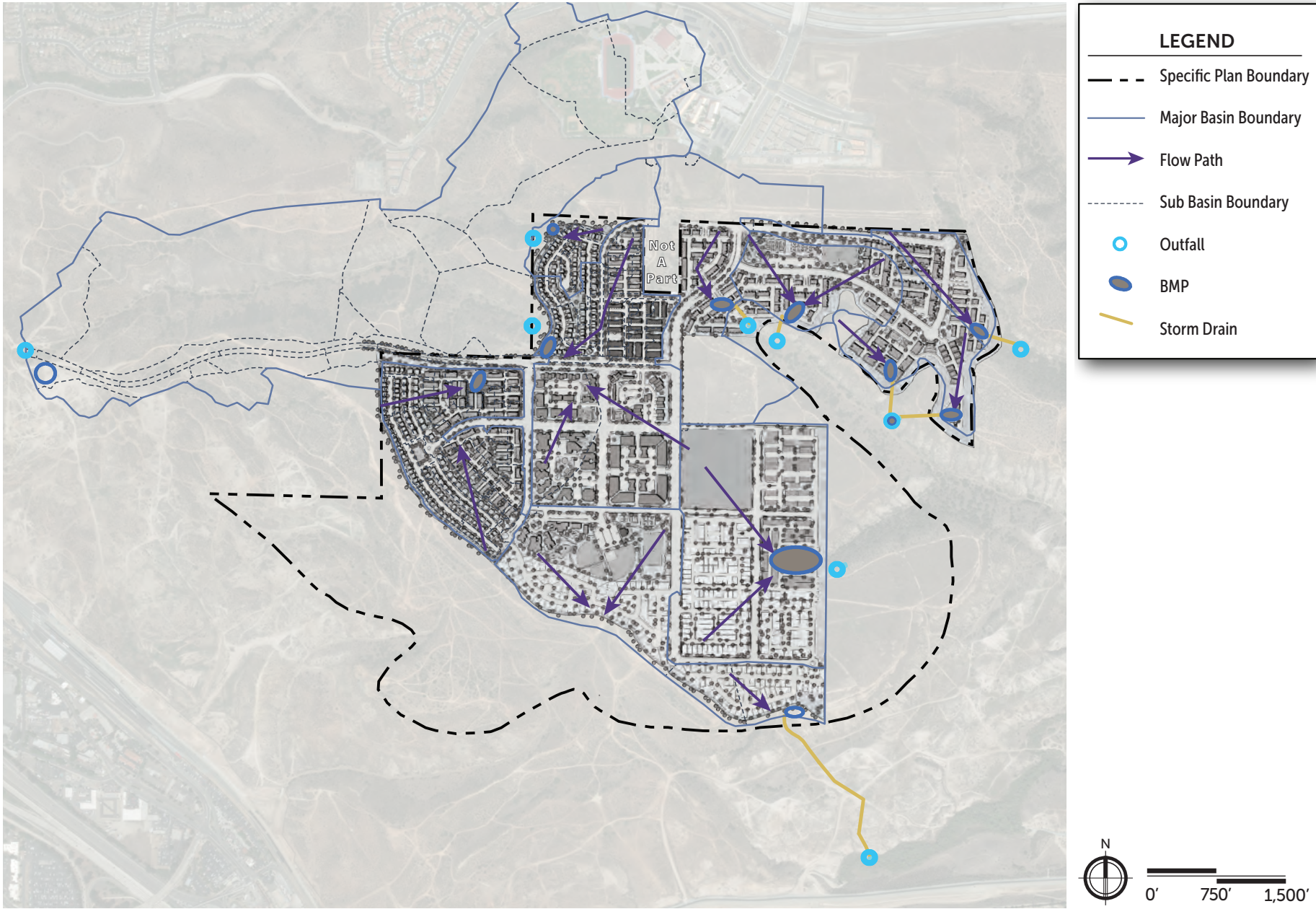
The San Ysidro Landslide complex borders Planning Areas 12, 14, 15, and 18 to the west and is one of the largest landslide features in San Diego County. A geotechnical report concluded that stormwater would need to be diverted away from the San Ysidro Landslide complex. The area that drains to the west in the pre-development condition would need to be diverted either north to Moody Canyon (25 acres) (and will ultimately flow west, discharging into the Tijuana Estuary), and/or the area would need to be diverted south to Spring Canyon (44 acres) (and into Mexico).

6.4.2 — Drainage Design

The Specific Plan Area is divided into two sub-watersheds, one that drains to Mexico via Spring Canyon (East Watershed) and the other that drains west to the Tijuana River, without crossing into Mexico via Moody Canyon (West Watershed). Therefore, the requirements of the sub-watersheds are different. While developments in the East watershed would require conformance with the Detention Notice, the West watershed would not be subject to the same requirements, but it is still expected that 100-year storm detention will be implemented to ensure that the existing downstream storm drain facilities within the Beyer Boulevard right-of-way would not be adversely impacted.

Due to the landslide complex to the west of Planning Areas 12, 14, 15, and 18, and based on the recommendations of the geotechnical and groundwater reports, drainage discharge from development within the Specific Plan area would need to be directed away from the San Ysidro landslide area complex. Flows directed to the Moody Canyon sub-watershed would meet hydromodification management plan requirements and detention requirements, while flows directed to the Spring Canyon sub-watershed would be subjected to hydromodification management plan requirements and enhanced detention requirements based on the Detention Notice (for a 5-year, 10-year, 25-year, 50-year, and 100-year storm events). Refer to [Section 7.9, Supplemental Development Regulations](#).

Figure 6.3 – Drainage System



6.4.3 – Stormwater Quality Best Management Practices

Best management practices (BMPs) would be incorporated into future developments in accordance with the requirements of the City of San Diego Storm Water Standards. Where feasible, regional-based structural (pollutant) control facilities may be used to accomplish water quality, hydromodification management, and detention requirements. The final BMP strategy would be determined during future site planning efforts.

A drainage and water quality technical report prepared for this Specific Plan recommended the following BMP strategy options to be considered:

- As a preferred alternative, a biofiltration BMP (in the form of a basin) is recommended at the downstream end of each regional drainage area to address the pollutant control, hydromodification management, and flood control detention requirements.
- If a combined hydromodification/pollutant control biofiltration basin with a single outfall is determined to be infeasible, a custom flow spreader design can be implemented along the perimeter of the canyon areas to mimic a sheet flow condition down the slope.
- At the downstream end of each regional drainage area, implement hydromodification control BMP(s) in series with a downstream pollutant control BMP to achieve pollutant control requirements. This could be achieved by the use of a subterranean detention vault for hydromodification control with a Modular Wetland System (or similar) downstream to provide pollutant control.
- As a last alternative, an “off-site alternative compliance” approach could be implemented if the project could utilize “credits” from an off-site to offset the on-site pollutant control (and possibly hydromodification management) requirements. Under this option, a “flow-thru” treatment facility within the Specific Plan area would still be needed for each drainage management area (or planning area) for treatment control requirements, but this may reduce extensive pollutant control and hydromodification control BMP footprint in the Specific Plan area.

6.5 – TELECOMMUNICATIONS AND CABLE SERVICE

Communications systems for telephone, telecom, computers, and cable television for the Specific Plan area are serviced by utility providers such as AT&T, Cox, and other independent telecommunications companies in the Specific Plan area.

6.6 – ENERGY (ELECTRICITY AND NATURAL GAS)

San Diego Gas and Electric Company (SDG&E) provides for the supply, transmission, and distribution of electricity and natural gas to customers in the Specific Plan area.

6.7 — PUBLIC FACILITIES

6.7.1 — Public Schools

The San Ysidro School District provides elementary and middle schools, and the Sweetwater Union High School District provides a high school that serves the Specific Plan area—San Ysidro Middle School and Vista Del Mar Middle School (grades 7–8) and San Ysidro High School (grades 9–12). An elementary school site will be provided within the Southwest Village to serve the Specific Plan area. A portion of the school site would be provided via a joint-use agreement on the adjacent City neighborhood park. The San Ysidro School District also provides elementary schools—Ocean View Hills Elementary School and La Mirada Elementary School (grades K–6). The Specific Plan includes two sites for schools, Planning Area 16 and Planning Area 7. Refer to [Section 7.9, Supplemental Development Regulations](#) for the provisions regarding alternative land uses.

6.7.2 — Solid Waste

The City’s Environmental Services Department provides refuse, recycling, and yard waste collection and disposal services to primarily single-family homes as well as some multi-family and commercial/business customers. Most multi-family residences and commercial and industrial business customers are not served by the City and are required to fund and contract directly with private haulers for trash and recycling collection.

6.7.3 — Libraries

The City of San Diego’s Public Library system has two branch libraries that serve the Specific Plan area: the Otay Mesa-Nestor Branch Library (3003 Coronado Avenue) and the San Ysidro Branch Library (4235 Beyer Boulevard).

6.7.4 — Police

The San Diego Police Department (SDPD) provides police services that include patrol, traffic, investigative, records, laboratory, and support services. The SDPD Southern Division station is the closest SDPD station to the Specific Plan area, located on 1120 27th Street.

6.7.5 — Fire/Emergency Services

The Specific Plan area is serviced by multiple fire stations: San Diego Fire-Rescue Station 29 at 198 West San Ysidro Boulevard, Fire Station 6 at 693 Twining Avenue, Fire Station 30 at 2265 Coronado Avenue, and Fire Station 43 at 1590 La Media Road. Fire Station 29 has an engine, truck, brush, and medic apparatus. The engine responds to both fire and medical incidents. Fire Station 6 serves Otay Mesa and its surrounding areas and has an engine apparatus. Fire Station 30 serves Nestor/South San Diego and its surrounding areas and has an engine and medic apparatus. Fire Station 43 serves Otay Mesa and its surrounding areas and has an engine and brush apparatus. The future Fire Station 49 will be north of the Specific Plan area, just west of Caliente Avenue on Otay Mesa Road, which will also serve the Specific Plan area.

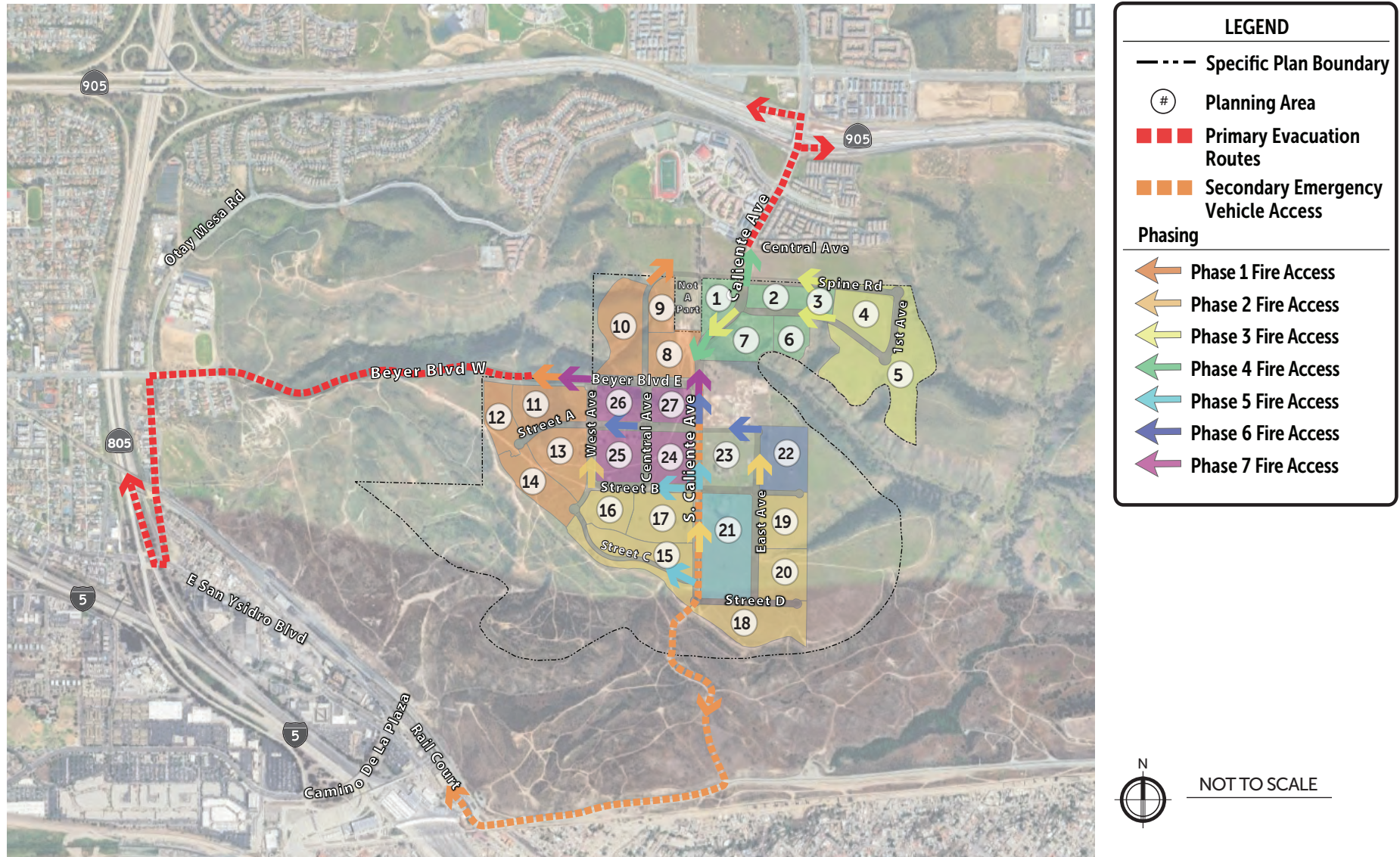
6.7.6 — Fire Access by Phase

As shown in [Figure 6.4, Master Fire Access By Phase](#), each phase of the Specific Plan would have at least two separate access routes. Beyer Boulevard will provide the primary east-west fire access to and from I-805 and the San Ysidro community. Caliente Avenue will provide the primary north-south fire access to and from I-8 and SR-905. A secondary emergency vehicle access road would provide access from East Beyer Boulevard to the south, southwest to Rail Court along existing utility roads.

The secondary emergency vehicle access road would be required before the construction of the 201st dwelling unit. If Beyer Boulevard West is not constructed before the requirement for a secondary fire access route is triggered, this emergency vehicle access road would serve as the secondary access route to the south of the Specific Plan. The emergency vehicle access road will remain open and usable beyond the construction of 699 dwelling units, when Beyer Boulevard West is required to be constructed. Vehicular access would be restricted to emergency responders only, with public vehicular access prohibited by a gate and Knox Box. Refer to [Section 7.9, Supplemental Development Regulations](#).

Before Phase 2 and the construction of South Caliente Avenue, the entrance to the secondary emergency vehicle access road may be located at the intersection of East Beyer Boulevard and future South Caliente Avenue. Once South Caliente Avenue is constructed, the gate and Knox Box will be relocated to the intersection of South Caliente Avenue and Street D. The road will be improved to meet emergency vehicle-only standards. The paving will consist of compacted decomposed granite for road grades of zero to five percent, asphalt paving for grades of five to 12 percent, and concrete paving for grades of 12 to 15 percent. Refer to Section 4.5.16, Secondary Emergency Vehicle Access Road.

Figure 6.4 – Master Fire Access By Phase



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07

IMPLEMENTATION
& ADMINISTRATION

7.1 — PURPOSE

- a) The purpose of the Southwest Village Specific Plan is to provide a framework for the implementation of the General Plan and Otay Mesa Community Plan by providing a planning and regulatory framework for development within the Southwest Village Specific Plan Area.
- b) Implementation of the Specific Plan will occur through subsequent development permits and approvals by the City to ensure that development is consistent with the Specific Plan policies and conforms with Specific Plan supplemental development regulations and other applicable requirements.
- c) Implementation of the Specific Plan will ensure orderly development of Southwest Village while allowing flexibility to adapt to more detailed site studies and tailor development to adapt to changes in the market.
- d) Cooperation and coordination between the City of San Diego, regional, state, and federal agencies, private property owners, the San Ysidro School District, providers of public services, financing and maintenance entities, and design professionals will be required to ensure implementation of the Specific Plan.

7.2 — AUTHORITY

- a) Pursuant to California Government Code, Title 7, Chapter 3, Articles 8, Sections 65450 through 65457 and San Diego Municipal Code Section 122.0107, the Southwest Village Specific Plan provides greater planning and design guidance for the Specific Plan area to implement the General Plan and the Otay Mesa Community Plan.
- b) The Specific Plan serves as a bridge between the General Plan, Otay Mesa Community Plan, and development within the Specific Plan area.

- c) The Southwest Village Specific Plan serves as both a planning and policy framework and the regulatory functions for Southwest Village.
- d) The Specific Plan governs development within the Southwest Village and contains design guidelines and supplemental development regulations necessary to accomplish this purpose.

7.3 — ADMINISTRATION

- a) The requirements of this chapter shall be administered and enforced in the same manner as the provisions of the City of San Diego Municipal Code (SDMC) and in conjunction with the supplemental development regulations contained in this Specific Plan.
- b) Unless otherwise specified, where the requirements of this Specific Plan differ from those in the SDMC, the requirements of this Specific Plan shall take precedence. Where the Specific Plan is silent on a topic, the SDMC requirements shall remain applicable.

7.4 — DEVELOPMENT REVIEW

- a) Development shall be reviewed for conformance with the development regulations in the SDMC and the supplemental development regulations within the Specific Plan.
- b) At the time of building permit review, the applicant shall include on the title sheet of the development plans the Implementation Tracking Table provided in Appendix C.

7.5 – SEVERABILITY

- a) All regulations, conditions, standards, and policies in this Specific Plan shall be deemed distinct and independent provisions.
- b) If any section, clause, phrase, or portion of this document is determined to be invalid by the decision of any federal or state court of competent jurisdiction, such decision shall not affect the validity of the remaining portions of this Specific Plan.

7.6 – ENVIRONMENTAL REVIEW

- a) The Southwest Village Specific Plan was required by California law to undergo environmental review in accordance with the California Environmental Quality Act (CEQA).
- b) Pursuant to State and local CEQA guidelines, the City of San Diego prepared a Subsequent Environmental Impact Report (SEIR, State Clearinghouse No. 2004051076) to address the potential environmental impacts of the Southwest Village Specific Plan.
- c) The EIR analyzed the Southwest Village Specific Plan on both a programmatic and a project level. The project level analysis covers the Vesting Tentative Map (VTM) submitted concurrently with the Specific Plan.
- d) Prior to the approval of the Specific Plan, the EIR was considered and certified by the San Diego City Council. The associated Mitigation Monitoring and Reporting Program, Findings, and Statement of Overriding Considerations were also adopted by the City Council.
- e) Any amendments to this Specific Plan or discretionary approvals required to implement this Specific Plan are subject to the requirements of CEQA.

7.7 – WILDLIFE CORRIDOR MANAGEMENT

- a) The developer constructing Beyer Boulevard shall provide an endowment to fund the management and monitoring of the wildlife features for 10 years, in addition to ongoing funding in perpetuity to support regular maintenance and monitoring. The fund shall be determined using a Property Analysis Record tool or an equivalent calculation method to the satisfaction of the Parks and Recreation Department Director.
- b) The City shall be responsible for implementing the Long-Term Management and Monitoring Plan for the 10-year monitoring period to maintain adequate wildlife movement.
- c) The City shall be responsible for maintaining the structural components of the wildlife overcrossing and associated Beyer Boulevard manufactured slopes.
- d) The City shall be responsible for maintaining the culvert undercrossing structure and associated stormwater conveyance system components.

7.8 – ZONING

- a) A base zone designation from the SDMC is identified for each specific plan land use category, as shown on [Figure 2.1, Southwest Village Land Use Plan](#), and [Table 2.1, Development Summary](#).
- b) The development regulations and allowable uses from the base zones shall apply to the Specific Plan area.
- c) All uses and development regulations of the base zones shall apply except where modified by the Specific Plan Supplemental Development Regulations.
- d) All applicable overlay zones of the SDMC shall apply to the Specific Plan area.

7.9 – SUPPLEMENTAL DEVELOPMENT REGULATIONS

- a) The purpose of the Supplemental Development Regulations is to provide regulations in addition to the regulations in the SDMC or modify the regulations in the SDMC.
- b) The following Supplemental Development Regulations (SDRs) apply to development within the Specific Plan area:

SDR - 1: Building Setbacks

- a) In the RM-3-7 zone:
 - 1) The minimum front, minimum street side, and minimum side setbacks shall be 0 feet.
 - 2) There shall be no standard front setback.
- b) In the RM-2-5 zone:
 - 1) The minimum front and rear setbacks shall be 10 feet.
 - 2) The minimum side setback shall be 4 feet.
 - 3) Exceptions:
 - A. The minimum side setback shall be 10 feet when abutting a brush management zone.
 - B. The minimum rear setback shall be 4 feet when abutting an alley.
- c) In the RM-1-3 zone:
 - 1) The minimum front setback shall be 8 feet.
 - 2) The standard front setback shall be 10 feet.
 - 3) The minimum rear setback shall be 10 feet.
 - 4) The minimum side setback shall be 4 feet.
 - 5) Exceptions:

- A. The minimum side setback shall be 10 feet when abutting a brush management zone.
- B. The minimum rear setback shall be 4 feet when abutting an alley.

SDR - 2: Floor Area Ratio

- a) In the RM-3-7 and RM-2-5 zones, the maximum floor area ratio shall be 2.0.
- b) In the RM-1-3 zone, the maximum floor area ratio shall be 1.3.

SDR - 3: Structure Height

In the RM-1-3 zone, the maximum structure height shall be 40 feet.

SDR - 4: Mixed Use Developments

In the RMX-1 zone, all premises shall comply with the regulations in Chapter 13, Article 1, Division 7, Section 131.0718.

SDR - 5: Driveways Fronting East Avenue

In the RM-2-5 zone, development fronting East Avenue, north of Street B, shall be limited to one driveway onto East Avenue south of the cul-de-sac. An additional driveway opening may be permitted, subject to approval by the City Engineer for a lot with at least 200 feet of total street frontage. For corner lots, the length of the street frontage may be combined for the purpose of this calculation.

SDR - 6: Minimum Required Parking Without an 18-foot Driveway

In the RM-1-3 zone, any multiple dwelling unit with a garage that does not provide a driveway that is at least 18 feet long, measured from the back of the sidewalk to that portion of the driveway most distant from the sidewalk, shall provide one additional parking space. This additional parking space may be on-street, abutting the subject property.

SDR - 7: Walls and Fences

- a) Walls and fences in a front or street side yard abutting a public street shall be located a minimum of 3 feet from the property line.
- b) Walls and fences shall be separated from the adjacent public right-of-way by a landscape strip that is a minimum of 3 feet in width, measured from the property line.
- c) Walls and fences located in or adjacent to the required front or street-side yards that exceed 6 feet in height shall be screened by landscaping of at least 3 feet in height.
- d) Walls or fences greater than 6 feet in height and over 50 linear feet that are visible to the public (including visible from public trails, parks, schools, roadways, etc.) shall include landscape screening to the satisfaction of the City's Development Services Director or designee.

SDR - 8: Grading

- a) To the maximum extent feasible, manufactured slopes shall blend with existing or planned adjacent topography and be naturalized. Alternative grading design, including exceedance of allowable development area, may be used according to the following to achieve avoidance of sensitive natural resources:
 - 1) Newly created manufactured slopes shall be landform graded with undulating slopes, irregular/varying gradients, and with the top (crest) and bottom (toe) of new manufactured slopes rounded to resemble natural landforms.
 - 2) The transition between manufactured slopes and natural topography shall be blended to avoid harsh angular lines.
 - 3) Landscaping on manufactured slopes adjacent to natural topography shall be similar to the vegetation on the natural slopes.
- b) Grading of manufactured slopes shall minimize substantial damage or alteration of significant permanent natural resources areas, wildlife habitats, or native vegetation areas which are designated by the Specific Plan or implementing tentative subdivision maps for

future development.

- c) Slopes that are adjacent to Beyer Boulevard, Caliente Avenue, and Central Street shall be landform graded regardless of the adjacent topography except when necessary to minimize impacts to sensitive natural resources.
- d) Phasing of grading within each planning area shall provide for the safety and maintenance of other planning areas already developed or under construction, and visual mitigation (revegetation) of all manufactured slopes.

SDR - 9: Bioretention Basins

Bioretention basins shall be designed to meet horticultural requirements of the plant material used therein, to include a minimum growing medium depth of 24 inches for shrubs and 36 inches for trees.

SDR - 10: Sidewalks

Sidewalks (throughway zone) within the parkway for public streets shall be a minimum of five feet in width, except along Beyer Boulevard West due to environmental constraints.

SDR - 11: Street Design

The street design standards listed in the specification tables in [Section 4.5](#) of the Specific Plan that include the modifications to the Street Design Manual shall supersede the applicable standards within the Street Design Manual.

SDR - 12: Emergency Vehicle Access Road

- a) A secondary emergency vehicle access road, shown as Segment 32, shall be required prior to issuing a building permit for the 201st dwelling unit.
- b) The emergency vehicle access road shall have a gate and Knox Box to restrict vehicular access to emergency responders and authorized personnel only.
- c) The emergency vehicle access road shall adhere to the standards outlined in the City of San Diego Fire-Rescue Department's Policy on Fire Access Roadways.
- d) Development shall not front the emergency vehicle access road.

SDR - 13: Perimeter Trails

- a) Perimeter trail tread widths shall be 8 feet, except in areas abutting a 4:1 slope, where the trail tread may be 7 feet in width.
- b) The perimeter trail shall be integrated into the Zone One Brush Management Program as part of the development footprint outside of the Multi-Habitat Planning Area or conservation easements.
- c) Where necessary and where avoidance can be maintained, small foot bridges may be installed to facilitate drainage crossings.
- d) A recreation easement shall be recorded over each segment of the perimeter trail to allow public access. This shall also include the portion of any trail that utilizes the fire access road within Planning Area 29.
- e) Perimeter trails shall be constructed concurrently with adjacent development.

SDR - 14: Primitive Trails

- a) A recreation easement shall be recorded for primitive trails on privately owned property to allow for public access.
- b) For trails in the Multi-Habitat Planning Area, the maintained trail tread shall not exceed 4 feet in width.

- c) Trail implementation within the open space surrounding the Specific Plan development area shall be sited to avoid impacts to jurisdictional resources, including wetlands, drainages, and vernal pool resources.
- d) Primitive trails shall be located around the vernal pools and outside of the vernal pool watersheds.
- e) Primitive trails shall be constructed concurrently with development and prior to dedication of land to the City.

SDR - 15: Non-Compliant Trails

- a) Any proposed trail alignment shall close all non-compliant trails within 50 feet of each side of the proposed trail alignment. Refer to [Figure B-1, Non-Compliant Trails](#).
- b) The closed non-compliant trails shall be restored to natural habitat to allow for natural vegetation regrowth to occur for the remaining portions.
- c) Signage shall be installed where appropriate to prevent access to the closed non-compliant trails.

SDR - 16: Population-Based Parks

On-site parks meeting population-based park requirements shall be designed and constructed in accordance with the Park Development Standard Terms and Conditions and the City of San Diego Park Design Manual to the satisfaction of the Parks and Recreation Director.

SDR - 17: Brush Management

- a) Fire load modeling shall be required wherever alternative compliance is allowed. Potential alternative compliance measures may include fire-rated site walls, upgraded windows as authorized by the Fire Chief, and private ownership areas maintained by the property owner.
- b) Where a 100-foot brush management zone cannot be achieved along canyon edges and open space areas, and alternative compliance measures are in effect, 6-foot non-combustible walls will be required.
- c) Brush Management Zone 2 shall be on lands maintained by a Master Maintenance Association.

SDR - 18: Maximum Residential Units

The maximum number of residential units within the Specific Plan area shall not exceed 5,130 dwelling units, as shown in [Table 2.1, Development Summary](#).

SDR - 19: Density Transfers Between Planning Areas

Density may be transferred between planning areas that permit residential uses, including privately owned parcels within Planning Areas 2, 23, and 29, subject to the following:

- a) The number of dwelling units in the planning area receiving the density transfer shall not exceed the maximum residential density range specified by the land use designation for the planning area, as shown in [Table 2.1, Development Summary](#);
- b) The residential density within the planning area where dwelling units are transferred from shall not be less than the minimum residential density range as a result of the density transfer as specified for that planning area, as shown in [Table 2.1, Development Summary](#); and
- c) The total number of dwelling units for the Specific Plan area does not exceed 5,130 dwelling units.
- d) Density transfers shall be subject to the minor modifications process specified in [Section 7.11, Minor Modifications](#).

SDR - 20: Maximum Commercial Square Footage

- a) The maximum commercial square footage within the Specific Plan area shall not exceed a total gross floor area of 175,000 square feet, as shown in [Table 2.1, Development Summary](#).
- b) The gross floor area for commercial uses shall not exceed the maximum permitted by the floor area ratio for the RMX-1 zone.
- c) Commercial uses are only permitted within Planning Areas 24, 25, 26, and 27.

SDR - 21: Alternative Land Uses Allowed

Alternative land uses within Planning Areas 7 and 16 may be allowed subject to the following conditions.

- a) Planning Area 7.
 - 1) Acquisition period. The San Ysidro School District (SYSD) shall have up to 2 years following the issuance of the construction permits for the 921st dwelling unit, or until January 1, 2035, whichever comes later, to acquire all or a portion of the school site in Planning Area 7. Documentation shall be submitted by the SYSD to the applicant and City by the 2-year deadline.
 - 2) The applicant shall provide notification in writing to the SYSD and the City, with the final option for the SYSD to acquire all or a portion of the site for the development of a school, 180 days before submitting a permit application for the development of residential within Planning Area 7.
 - 3) The applicant shall submit documentation that the SYSD declined to acquire all or a portion of the school site for the development of a school within Planning Area 7.

b) Planning Area 16.

- 1) The SYSD shall have up to 2 years following the issuance of the construction permits for the 921st dwelling unit or until January 1, 2032, whichever comes later, for Planning Area 16, to determine the need for the school site within Planning Area 16.
- 2) The applicant shall provide notification in writing to the SYSD and the City, with the final option for the SYSD to acquire all or a portion of the site for the development of a school, 180 days before submittal of a permit application for the development of residential within Planning Area 16.
- 3) The applicant shall submit documentation that the SYSD declined to acquire all or a portion of the school site for the development of a school within Planning Area 16.
- 4) If the regulations above ((b)(1-3)) have been satisfied, then the medium residential density land use designation shall apply to Planning Area 16, and it may be developed up to a maximum of 136 dwelling units.

SDR - 22: Residential Density

- a) Development with a residential use shall not have a density that exceeds the maximum density for a planning area as shown in [Table 2.1](#).
- b) Development with a residential use shall not have a density below the minimum of the density for a planning area in [Table 2.1](#), except if a development provides dedication or easement for open space conservation.

SDR - 23: Stormwater Drainage Design

- a) Stormwater drainage discharge from development shall be directed away from the San Ysidro landslide complex area.

- b) Flows directed to the Spring Canyon sub-watershed shall be subjected to hydromodification management plan requirements and enhanced detention requirements based on the Detention Notice for a 5-year, 10-year, 25-year, 50-year, and 100-year storm events.

SDR - 24: Fire Plan

Any development that includes more than 200 dwelling units shall submit a Fire Plan showing two separate access points located a distance not less than half of the maximum overall diagonal dimension of the planning area(s) where the development is located.

SDR - 25: Wildlife Corridor Crossings

- a) Beyer Boulevard West shall be designed, constructed, and maintained to allow for wildlife movement through a wildlife overcrossing and three culverts under the roadway, as shown in [Figure 5.23, Beyer Boulevard West Wildlife Corridor Crossings](#), to the satisfaction of the City Manager and the City Engineer.
- b) Overcrossing.
 - 1) Location. A wildlife overcrossing shall be constructed across Beyer Boulevard West, approximately 515 feet west of the Specific Plan area boundary, in the location of existing high-use wildlife movement patterns through an existing drainage swale area consistent with the Multiple Species Conservation Program Subarea Plan and Area Specific Management Directives for Otay Mesa.
 - 2) Dimensions. The wildlife overcrossing shall have a minimum width of 32 feet and a minimum length of 60 feet.
 - 3) Ends. The overcrossing shall be designed with ends to mimic the existing topographic conditions and include flared entrances to encourage wildlife entry.

- 4) Slopes. Slopes adjacent to the overcrossing ends shall also be revegetated with native vegetation to match the surrounding habitats.
- c) Undercrossing. The Beyer Boulevard extension shall have 3 small animal-undercrossing culverts where the right-of-way crosses conserved habitat open space areas.
 - 1) Location. The culverts shall be installed to provide passage for small animals between Moody Canyon and habitat areas to the south.
 - 2) Dimensions. The culverts shall have a minimum height of 6 feet and a minimum length of 103 feet.
 - 3) Ends. The culvert ends shall also be designed with flares at the ends to encourage entry.
- d) Fencing.
 - 1) Wildlife fencing shall be installed concurrently during the construction of Beyer Boulevard West.
 - 2) Location. Chain-link fencing or similar exclusion fencing shall be constructed along the length of Beyer Boulevard West on both the north and south sides to prevent wildlife crossings along the roadway and to funnel wildlife toward the wildlife crossings. The precise location (elevation) of the fencing on the slope shall be determined during the final engineering of Beyer Boulevard West.
 - 3) Height.
 - A. The height of the fencing shall be based on the slope aspect in relation to the fence, with fence heights being a minimum of 6 feet and a maximum of 8 feet, depending on the orientation of the slope.
 - B. Fence heights shall vary with topographic conditions to ensure adequate control of wildlife movement away from the roadway.
 - C. Where the fence is located mid-slope with a wildlife usage area located above the fence line, the height of the fence shall be 8 feet.
 - D. Where the fence is located at grade or with a wildlife use area located downslope of the fence, the height of the fence shall be 6 feet.
- 4) Installation.
 - A. Wildlife fencing shall be installed a minimum of 6 inches below grade to prevent animals from burrowing under.
 - B. A fine mesh shall be installed along the bottom two feet of the fence to prevent small animal movement through the fence.
- e) Gate. Near the western end of the proposed Beyer Boulevard West, where vehicular access is needed for an SDG&E easement, a gate shall be added on the north and south sides of the roadway to allow for vehicular entry while keeping wildlife from entering the roadway.
- f) Landscaping.
 - 1) The wildlife overcrossing surface shall be landscaped with native plants and native soil at a minimum depth of 3 feet.
 - 2) Soils for the overcrossing shall originate from the surface layer of the surrounding native soils.
 - 3) The following plant palette shall be used for landscaping the wildlife overcrossing:
 - A. Coastal cholla (*Cylindropuntia prolifera*)
 - B. California encelia/Bush sunflower (*Encelia californica*)
 - C. Laurel sumac (*Malosma laurina*)
 - D. Coast prickly pear (*Opuntia littoralis*)
 - E. Bladderpod (*Peritoma arborea*)
 - F. Lemonade berry (*Rhus integrifolia*)
 - G. Black sage (*Salvia mellifera*)
 - H. Mojave yucca (*Yucca schidigera*)

- I. Purple needlegrass (*Stipa pulchra*)
- J. Small flowered needlegrass (*Stipa lepida*)
- K. Other species native to the Otay Mesa region may also be added to the planting palette, to the satisfaction of the City Biologist and Parks and Recreation Director.
 - i. Native bushes found in the area that attain 6- to 8-foot heights shall be placed along the sides of the overcrossing to screen the road and provide refugia. Native bushes include lemonade berry and laurel sumac.
 - ii. Micro-refugia (e.g., rock or wood structures) shall be incorporated onto the overcrossing and undercrossing surface for small animal stopping points/shelters.
 - iii. Native plant landscaping on the southern slope at the wildlife overcrossing shall be designed with vegetation to deter human views toward the overcrossing and deter human use. Native cacti and other uninviting species may be selected to deter human access.

SDR - 26: Bird Safe Glass

- a) Where walls with glass or transparent panes are proposed adjacent to land designated as open space, bird-safe glass shall be used to prevent bird collisions to the satisfaction of the Development Services Department Director and City Engineer.
- b) Bird safe glass shall include the use of glass with ultraviolet reflective patterns visible to birds but transparent to the human eye, or etched or patterned glass that provides a visual barrier.
- a) Patterned or etched glass shall have vertical stripes at least 0.25 inch wide with a maximum spacing of 4 inches, or horizontal stripes that are at least 0.25 inch wide with a maximum spacing of 2 inches in accordance with the guidance provided in the USFWS publication *Low-Cost Methods to Reduce Bird Collisions with Glass*, dated June 4, 2021.

SDR - 27: Transportation Facilities

Developments requesting a subdivision shall demonstrate that public rights-of-way with pedestrian and bicycle facilities within the proposed subdivision align with public rights-of-way within adjacent development and planning areas.

SDR - 28: Recreational Amenity Enhancements

- a) Recreational amenity enhancements shall be included within public spaces, parks, and along trails.
- b) Amenity enhancement typology and design may vary.
- c) Each amenity enhancement shall have an identified value category according to the scale and recreational/ social value it contributes to the recreational needs of the Specific Plan area, consistent with the Parks Master Plan.
- d) Development shall provide amenities with a minimum number of recreational value points established by the Parks Master Plan and General Plan Parks Standards.
- e) Trail amenity enhancements shall be provided along the perimeter trail, paseos, and sidewalks along the Village Core every one-quarter mile as addressed in [Section 5.8, Trail Typology](#).

SDR - 29: Recreation Value Points Phasing

- a) The recreational value points phasing requirements for public spaces, parks, and trails shall be constructed and accepted by the Parks and Recreation Department Director before residential development is permitted beyond the dwelling unit threshold as specified in *Table 7.1, Recreational Value Points Thresholds*, to the satisfaction of the Development Services Department Director. Refer to *Table 5.1, Parks Phasing*.
- b) If the SYSD declines to acquire all or a portion of the school site for the development of a school on Planning Area 16, a development with residential uses shall provide up to 43 recreational value points based on a maximum number of permitted dwelling units. Refer to *Section 7.9* for alternative land uses allowed.

Table 7.1 – Recreational Value Points Thresholds

| TOTAL RECREATIONAL VALUE POINTS TO BE ACHIEVED PRIOR TO CORRESPONDING DWELLING UNIT THRESHOLD | DWELLING UNIT THRESHOLD |
|---|-------------------------|
| 417 | 1,315 |
| 687 | 2,16 |
| 947 | 2,986 |
| 1,251 | 3,943 |
| 1,627 | 5,130 |

7.10 — CONSTRUCTION AND DEVELOPMENT PERMITS

The Specific Plan will be implemented in phases.

7.10.1 — Phase 1 Approvals

The Specific Plan was approved with a Vested Tentative Map and Site Development Permit for Phase 1, which includes Planning Areas 8 to 14.

7.10.2 — Future Phase Approvals

- a) Future phasing of the Specific Plan may require additional discretionary approvals and permitting other than what was approved with the Specific Plan.
- b) Unless otherwise specified in this section, applications for Development Permits and Construction Permits, as defined by the San Diego Municipal Code (SDMC), shall use Process One through Process Five as established in Chapter 11 Article 2 (Land Development Procedures) and permit types as described in Chapter 12 (Land Development Reviews).
- c) All provisions of the SDMC apply except where specified by the Supplemental Development Regulations in [Section 7.9](#).
- d) A development permit shall be obtained if development within the Specific Plan Area contains environmentally sensitive lands, as identified by Chapter 14, Article 3, Division 1 (Environmentally Sensitive Lands Regulations). A Site Development Permit may be reduced to a Neighborhood Development Permit for future development within a Transit Priority Area that does not impact wetlands.
- e) Future development that is not already addressed in the Otay Mesa Community Plan Update Program Environmental Impact Report (EIR; SCH No. 2004051076) and/or the associated Southwest Village Specific Plan Subsequent EIR and/or does not impact environmentally sensitive lands or result in additional adverse environmental impacts analyzed in the CEQA document shall not require a Site Development Permit and may be processed with a Neighborhood Development Permit.
- f) A decision on an application for a minor modification as described in [Section 7.11](#) shall be made in accordance with Process Two Substantial Conformance Review.
- g) If a density or intensity transfer is proposed as part of future development, the density/intensity transfer shall be included with the applicable development permit, consistent with [Section 7.9](#) of this Specific Plan.
- h) Future development will implement public improvements as identified in [Table 7.2, Phasing Summary](#).
- i) Development will be subject to the General Plan population-based park requirements in place at the time of building permit issuance.
- j) Public parks and recreational facilities satisfying population-based park requirements shall be designed through a General Development Plan public input process in accordance with City Council CP 600-33.
- k) A Comprehensive Sign Plan, processed as a Neighborhood Use Permit, per Chapter 14, Article 1, Division 11, Section 141.1103, shall be submitted during the building permit and site infrastructure process to allow any signs that are inconsistent with or exceed the SDMC Sign Regulations.
- l) An Encroachment Maintenance and Removal Agreement shall be obtained for any non-standard lighting, gateway, or wayfinding signage within the public right-of-way.

7.11 – MINOR MODIFICATIONS

- a) Minor modifications shall be consistent with the vision and intent of the Specific Plan.
- b) Minor modifications are subject to review and approval by the Development Services Department Director or his/her designee.
- c) Minor modifications shall be consistent with the vision and intent of the Specific Plan and may include, but are not limited to, the following:
 - 1) Decrease in overall Specific Plan density and intensity may be approved if the density and intensity for each planning area remains within the density range of the planning area's land use designation as applied by the Specific Plan.
 - 2) Adjustment in the size of planning areas may be approved if the adjustment will result in parcels that align with the planning area boundaries and the density and intensity of development for each planning area remain within the density range of the planning area's land use designation as applied by the Specific Plan.
 - 3) Adjustment to open space acreage may be approved if the revised open space boundaries comply with the open space designations shown with the Specific Plan area by the Otay Mesa Community Plan Land Use Plan.
 - 4) Adjustments to the Multi-Habitat Planning Area boundaries may be approved where the new Multi-Habitat Planning Area boundary would result in an area of equivalent or higher biological value. The determination of the biological value will be made by the City in accordance with Section 5.4.2 of the Multiple Species Conservation Program Plan, with the concurrence of the wildlife agencies. Any adjustment to the Multi-Habitat Planning Area boundary will be disclosed in the environmental document prepared for the specific project and shall comply with the Environmentally Sensitive Lands Regulations.
- 5) Consolidation of Planning Areas may be approved if the consolidation will result in contiguous Planning Areas that have the same land use designation, as shown in [Figure 2.1, Southwest Village Land Use Plan](#), and the consolidated Planning Area will have the same development intensity allowance as the total of individual Planning Areas before they were combined.
- 6) The consolidated Planning Area shall have the same required infrastructure and accessible park and recreational amenities, meeting the recreational value-based standard in the Specific Plan.
- 7) Alternative land use development of residential and recreational uses in place of a school within Planning Area 16, subject to the supplemental development regulations in [Section 7.9](#).
- 8) Alternative land use development of residential in place of a school within Planning Area 7, subject to the supplemental development regulations in [Section 7.9](#).
- 9) Changes to landscape, wall material, wall alignment, and streetscape design may be approved if the changes substantially conform to the intent of the design policies in the Specific Plan.
- 10) Density transfers between planning areas, subject to the supplemental development regulations in [Section 7.9](#).
- d) Minor modifications to improvements and infrastructure, listed in [Section 7.13](#) within and outside of the Specific Plan area, may occur in an alternative phase if development occurs outside of its designated phase shown in [Table 7.2, Phasing Table](#), per approval of the City Engineer. All changes to the final sizing and precise location of water, sewer, storm drainage, and other infrastructure improvements are subject to the approval of the City Engineer.
- e) Adjustments to the wildlife crossing dimensions to address engineering and site conditions will require an updated wildlife crossing study to the satisfaction of the City Engineer and Parks and Recreation Director.

7.12 — SPECIFIC PLAN AMENDMENTS

- a) All Specific Plan modifications that do not meet the criteria of a Minor Modification as defined in [Section 7.11](#) shall require a Specific Plan Amendment.
- b) Specific Plan Amendments shall be processed pursuant to Process Five, as established in Division 5, Article 2, Chapter 11, requiring the approval of the City Council.

7.13 — PHASING

- a) Implementation of Southwest Village will require construction of new infrastructure and facilities, as well as improvements to existing infrastructure and facilities, as part of a proposed development. Improvements will be necessary to the circulation network, drainage facilities, utilities (e.g., water, sewer, etc.), and other infrastructure. In addition, the Specific Plan includes provisions for streetscape enhancement, pedestrian elements, and overall design guidance. These improvements will be phased according to the associated planning area(s) being developed.
- b) While [Table 7.2, Phasing Summary](#), provides the targeted land use assumptions in chronological order, it does not dictate the exact sequence in which development may occur. Flexibility in the sequence (phasing) of development in the Specific Plan area shall be allowed without constituting an amendment to the Specific Plan, provided it can be demonstrated that all infrastructure improvements and public facilities required for the phase of development in question are in place or will be constructed as part of the development.
- c) The necessary infrastructure and public facilities required for each phase of development shall be constructed as part of the development, or may be necessary to construct prior to the construction of the development, consistent with [Table 7.2, Phasing Summary](#), below, and the Southwest Village Specific Plan Transportation Phasing Plan, included as [Appendix F](#) of this document.

- d) The Southwest Village Environmental Impact Report (EIR) analyzed the comprehensive build-out of the Specific Plan area and identified an appropriate Mitigation, Monitoring, and Reporting Program. The Southwest Village Local Mobility Analysis (Appendix J-4 to the EIR) analyzes the roads associated with two phases of development for Vesting Tentative Map (VTM)-1 (the first 920 dwelling units).
- e) The Southwest Village Transportation Phasing Plan will help ensure that the appropriate circulation system is provided as the project builds out over an extended period.
- f) Infrastructure improvements, including water, sewer, drainage, landscaping, and dry utilities, will also be phased in a logical progression to meet the development needs associated with each phase. Depending on when a development applies for development permits, certain infrastructure shall be installed relevant to its location and scale, in addition to the timing. For example, the sewer pump station at the terminus of Street D would need to be installed at the time Planning Areas 15 through 22, as well as portions of Planning Areas 24 and 25, are constructed.
- g) [Table 7.2, Phasing Summary](#), summarizes each of the phases of development. It is anticipated that the Specific Plan area will be developed in multiple phases over time due to the multiple property ownership. This Specific Plan does not require that phases occur in any special order. Phasing may occur in any order, and more than one phase may occur at one time, provided that the necessary infrastructure is in place or occurs concurrently as specified in each phase(s) of development. For example, Beyer Boulevard shall be extended to the west prior to the 700th dwelling unit in Phase 1. [Figure 7.1, Phasing](#) illustrates the implementation of the Specific Plan by Planning Area.

7.14 — DEVELOPMENT IMPACT FEES

- a) Pursuant to SDMC Section 142.0640(f), development impact fees may be used for a Reimbursement Agreement for the development of eligible public infrastructure and facility projects.
- b) Pursuant to SDMC Section 142.0640(b)(9), development that designs and constructs an on-site park that satisfies the development's population-based park requirements and is constructed in accordance with Council Policy 600-33 and meets the Parks Master Plan standards can get a waiver for up to 90% of the Citywide Parks DIF.

Table 7.2 – Phasing Summary

| PHASE / TARGET LAND USE ASSUMPTIONS | ON-SITE IMPROVEMENTS | OFF-SITE IMPROVEMENTS |
|---|---|--|
| Phase 1 | | |
| <p>Planning Areas</p> <ul style="list-style-type: none"> • 8, 9, 10, 11, 12, 13, 14 <p>1,315 Maximum Residential Units:</p> <ul style="list-style-type: none"> • 282 Multifamily Residential (20-44 du/ac) • 490 Multifamily Residential (15-29 du/ac) • 543 Single Family Residential (8-22 du/ac) | <p><u>Mobility Network. The following shall be constructed:</u></p> <ul style="list-style-type: none"> • Beyer Boulevard West (from West Avenue to the western Specific Plan boundary) shall be constructed prior to the 700th dwelling unit in Phase 1. • Beyer Boulevard East (from Caliente Avenue to West Avenue, northern half of the street) • Central Avenue (from Caliente Avenue to Beyer Boulevard) • Street A (from western cul-de sac to West Avenue) • West Avenue (western half of the street from Beyer Boulevard to Street B and full width south of Street B) • Beyer Boulevard / Central Avenue Intersection (interim conditions per Southwest Village Specific Plan Transportation Phasing Plan (Appendix F)) • T-intersection at Caliente Avenue/Central Avenue • Secondary Emergency Vehicle Access Road (shall be constructed at the 201st dwelling unit) <p><u>Parks and Trails. The following shall be constructed:</u></p> <ul style="list-style-type: none"> • Planning Area 8 Pocket Park: HH • Planning Area 9 Pocket Park: II • Planning Area 10 Pocket Parks: AA, BB, CC, and DD • Planning Area 10 Paseos • Planning Area 11 Pocket Parks: MM and OO • Planning Area 12 Pocket Parks: SS, XX • Planning Area 12 Paseos • Planning Area 13 Pocket Parks: PP, RR • Planning Area 13 Paseos • Planning Area 14 Pocket Parks: YY • Planning Area 14 Paseos • Multi-use Perimeter Trail and trail amenities (Specific Plan area entrance at Caliente Avenue to the eastern boundary of Planning Area 14) • Primitive Trails Type A that connect to Planning Areas 12 and 14 (including the closure of non-conforming trails adjacent to these trails) <p><u>Other Infrastructure. The following shall be constructed:</u></p> <ul style="list-style-type: none"> • Landscape infrastructure in Planning Areas 8 - 14 • 16-inch water line backbone loop along Central Avenue, Beyer Boulevard between Central Avenue and West Avenue, and along West Avenue • 18-inch gravity sewer line along Beyer Boulevard and West Avenue. Eight-inch gravity sewer along Street A in Planning Areas 11-14 | <p><u>Mobility Network: The following shall be constructed:</u></p> <ul style="list-style-type: none"> • Beyer Boulevard from the Specific Plan boundary to Enright Drive shall be constructed prior to the 700th dwelling unit in Phase 1 • Intersection of Caliente Avenue at SR- 905 westbound ramp: re-stripe the northbound single left turn lane into a dual left turn lane, upgrade the traffic controller, and construct a second receiving lane to the westbound on-ramp • Intersection of Caliente Avenue at SR- 905 eastbound ramp: upgrade traffic controller • Intersection of Caliente Avenue/Ocean View Hills/Otay Mesa Road: upgrade traffic controller • Intersection of Caliente Avenue/Airway Road: upgrade traffic controller • Caliente Avenue from the existing southern terminus to Central Avenue • Secondary Emergency Vehicle Access Road, from the Specific Plan boundary to Rail Court to the southwest, will be required to be constructed at the 201st dwelling unit <p><u>Park and Trails: The following shall be constructed:</u></p> <ul style="list-style-type: none"> • Primitive Trails Type A |

| PHASE / TARGET LAND USE ASSUMPTIONS | ON-SITE IMPROVEMENTS | OFF-SITE IMPROVEMENTS |
|---|---|---|
| Phase 2 | | |
| <p>Planning Areas</p> <ul style="list-style-type: none"> • 15, 16, 17, 18, 19, 20 <p>988 Residential Units:</p> <ul style="list-style-type: none"> • 237 Multifamily Residential (15-29 du/ac) • 136¹ Contingency Multifamily Residential in Planning Area 16 (15-29 du/ac) • 615 Single Family Residential (8-22 du/ac) | <p><u>Mobility Network. The following shall be constructed:</u></p> <ul style="list-style-type: none"> • Caliente Avenue from Central Avenue to Beyer Boulevard • Caliente Avenue / Beyer Boulevard Intersection • South Caliente Avenue (full-width north of Beyer Boulevard and south of Street B) • South Caliente Avenue (eastern half of the street from Beyer Boulevard to Street B) • Street B (full-width east of South Caliente Avenue) • Street B (southern half of the street from West Avenue to South Caliente Avenue) • Street C (all segments) • Street D (all segments) • East Avenue (all segments) <p><u>Parks and Trails. The following shall be constructed:</u></p> <ul style="list-style-type: none"> • Neighborhood Park in Planning Area 17 • Paseo along Street C (from West Avenue to East Avenue) • Paseo between Planning Area 19 and 20 • Multi-use Perimeter Trail (Terminus of Phase 1 to northern boundary of Planning Area 19) • Public multi-use Perimeter Trail in Planning Areas 15, 18, and 19 • Public mini/pocket parks in Planning Areas 19 and 20 • Perimeter Trail in Planning Area 20 • Primitive Trails Type A that connect to Planning Areas 15 and 18 (including the closure of non-conforming trails adjacent to these trails) <p><u>Other Infrastructure</u></p> <ul style="list-style-type: none"> • Landscape infrastructure in Planning Areas 15 - 20 • Southwest Village Elementary School (1) (Planning Area 16) • Sewer Pump Station east of Street D | <p><u>Other Infrastructure. The following shall be constructed:</u></p> <ul style="list-style-type: none"> • A 16-inch water line in Otay Mesa Road and Beyer Boulevard between Enright Drive and Princess Park Pump Station. • A conditional assessment report to determine the required upgrades at the Princess Park Pump Station to provide a redundant water supply. • Upsize the existing 12-inch gravity sewer to 27 inches in East Beyer Boulevard between Beyer Boulevard and the rail right-of-way. • Upsize the existing 18-inch gravity sewer to 33 inches in East Beyer Boulevard and Center Street between Hill Street and East San Ysidro Boulevard. |

1. If the SYSD determines that a school is no longer needed on Planning Area 16, the site will default to Medium Density Residential use. Although the contingency for Planning Area 16 would result in approximately 136 additional dwelling units, the maximum dwelling unit cap of 5,130 units would still apply.

| PHASE / TARGET LAND USE ASSUMPTIONS | ON-SITE IMPROVEMENTS | OFF-SITE IMPROVEMENTS |
|---|---|---|
| Phase 3 | | |
| Planning Areas • 4, 5 819 Multifamily Residential (15-29 du/ac) units | <u>Mobility Network. The following shall be constructed:</u> <ul style="list-style-type: none"> • 1st Avenue • Spine Road • Central Avenue (Caliente Avenue to 1st Avenue) <u>Parks and Trails. The following shall be constructed:</u> <ul style="list-style-type: none"> • Public mini/pocket parks in Planning Area 5 • Public multi-use Pathway (internal to Planning Area 5) • Public multi-use Perimeter Trail (Planning Area 5) • Paseo <u>Other Infrastructure. The following shall be constructed:</u> <ul style="list-style-type: none"> • Landscape infrastructure in Planning Areas 4 and 5 • 12-inch sewer force main along Spine Road • 10-inch gravity sewer line along Caliente Avenue from the terminus to Beyer Boulevard • Sewer Lift Station | |
| Phase 4 | | |
| Planning Areas: 1, 2, 3, 6, 7 384 Multifamily Residential (15-29 du/ac) units | <u>Parks and Trails. The following shall be constructed:</u> <ul style="list-style-type: none"> • Public multi-use Perimeter Trail in Planning Area 6 and 7 • Public neighborhood park in Planning Area 2 and 3 <u>Other Infrastructure. The following shall be constructed:</u> <ul style="list-style-type: none"> • Landscape infrastructure in Planning Areas 1, 2, 3, 6, and 7 • [Water/sewer improvements to be determined] | <u>Mobility Network. The following shall be constructed:</u> <ul style="list-style-type: none"> • Improve Beyer Boulevard between East Beyer Boulevard and Enright Drive to a Modified 4-Lane Urban Collector with buffered Class II bike lanes prior to the 3,298th dwelling unit. <u>Parks and Trails. The following shall be constructed:</u> <ul style="list-style-type: none"> • Eastern Quadrant Trails – Segment number(s) to be determined <u>Other Infrastructure. The following shall be constructed:</u> <ul style="list-style-type: none"> • Upsize existing 10-inch gravity sewer to 15 inches in Beyer Boulevard between Enright Drive and East Beyer Boulevard. |

| PHASE / TARGET LAND USE ASSUMPTIONS | ON-SITE IMPROVEMENTS | OFF-SITE IMPROVEMENTS |
|---|---|--|
| Phase 5 | | |
| Planning Areas: 21 306 Multifamily Residential (8-22 du/ac) units | <u>Parks and Trails. The following shall be constructed:</u> <ul style="list-style-type: none"> • Paseo (bike/pedestrian connection- South Caliente Avenue to East Avenue) • Public mini/pocket parks in Planning Area 21 <u>Other Infrastructure. The following shall be constructed:</u> <ul style="list-style-type: none"> • Landscape infrastructure in Planning Area 21 • [Water/sewer improvements to be determined] | |
| Phase 6 | | |
| Planning Areas: 22 267 Multifamily Residential (15-29 du/ac) units | <u>Mobility Network. The following shall be constructed:</u> <ul style="list-style-type: none"> • Emergency Vehicle Access Road from South Caliente Avenue to East Avenue <u>Parks and Trails. The following shall be constructed:</u> <ul style="list-style-type: none"> • Public pocket park(s) in Planning Area 22 <u>Other Infrastructure. The following shall be constructed:</u> <ul style="list-style-type: none"> • Landscape infrastructure in Planning Area 22 • [Water/sewer improvements to be determined] | |
| Phase 7 | | |
| Planning Areas: 24, 25, 26, 27 1,187 Multifamily Residential (30-62 du/ac) units 175,000 square feet of commercial uses | <u>Mobility Network. The following shall be constructed:</u> <ul style="list-style-type: none"> • Central Ave from Beyer Boulevard East to Street B • Street A from West Avenue to South Caliente Avenue • Beyer Boulevard (southern half of the street from West Avenue to South Caliente Avenue) • West Avenue (eastern half of the street from Beyer Boulevard to Street B) • Street B (northern half of the street) • South Caliente Avenue (western half of the street from Beyer Boulevard East to Street B) <u>Parks and Trails. The following shall be constructed:</u> Pocket parks and urban plazas in the Village Core (Planning Areas 24 - 27) <u>Other Infrastructure. The following shall be constructed:</u> <ul style="list-style-type: none"> • Landscape infrastructure in Planning Areas 24 - 27 • Mobility hub with public transit stop | <u>Other Infrastructure. The following shall be constructed:</u> <ul style="list-style-type: none"> • Upsize the existing 15-inch gravity sewer to 27 inches in East Beyer Boulevard between the rail right-of-way and Hill Street. • Perform efficiency testing at Ocean View Hills Pump Station. |
| Total Dwelling Units: 5,130 Commercial Square Footage: 175,000 | | |

Figure 7.1 – Phasing

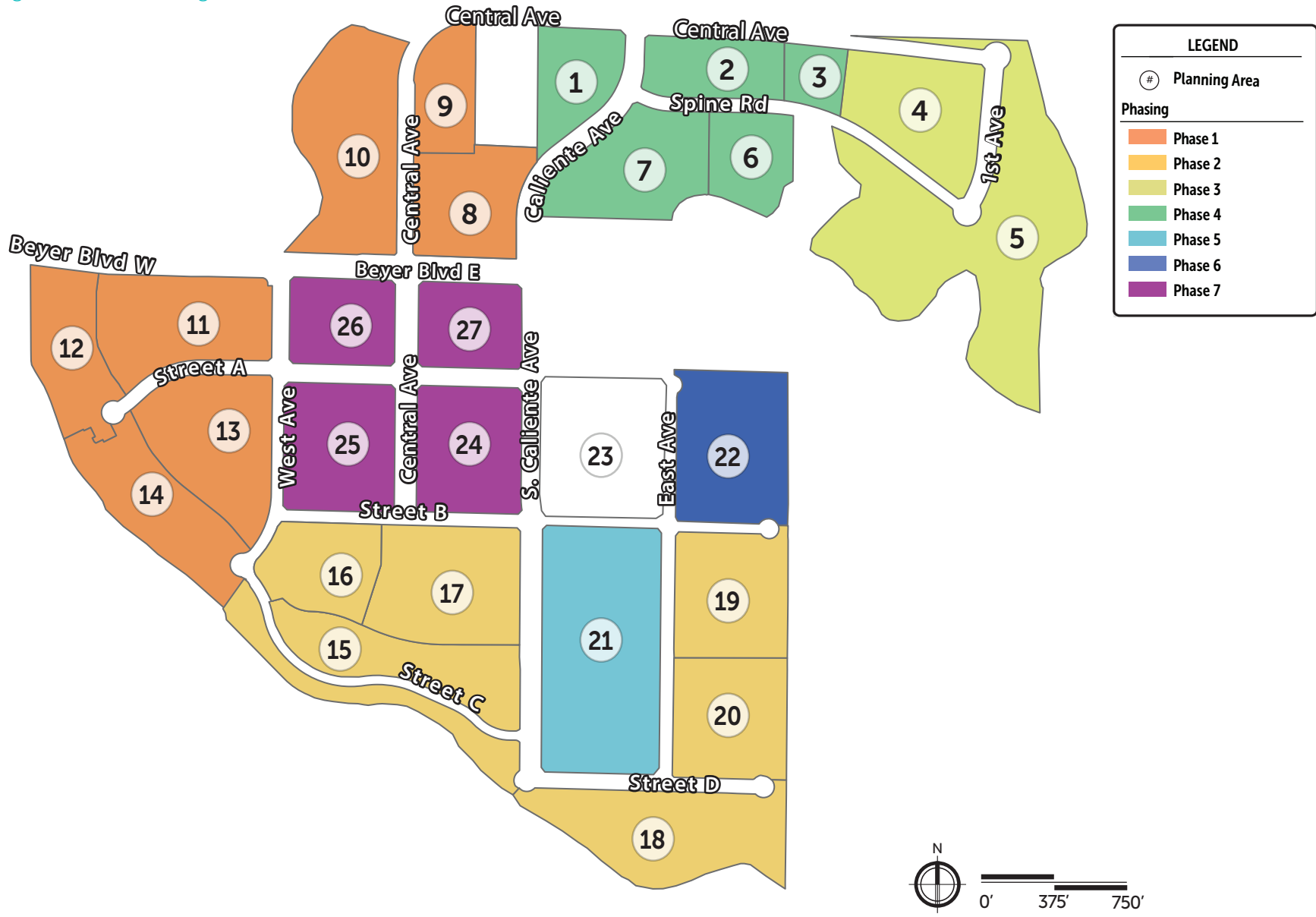
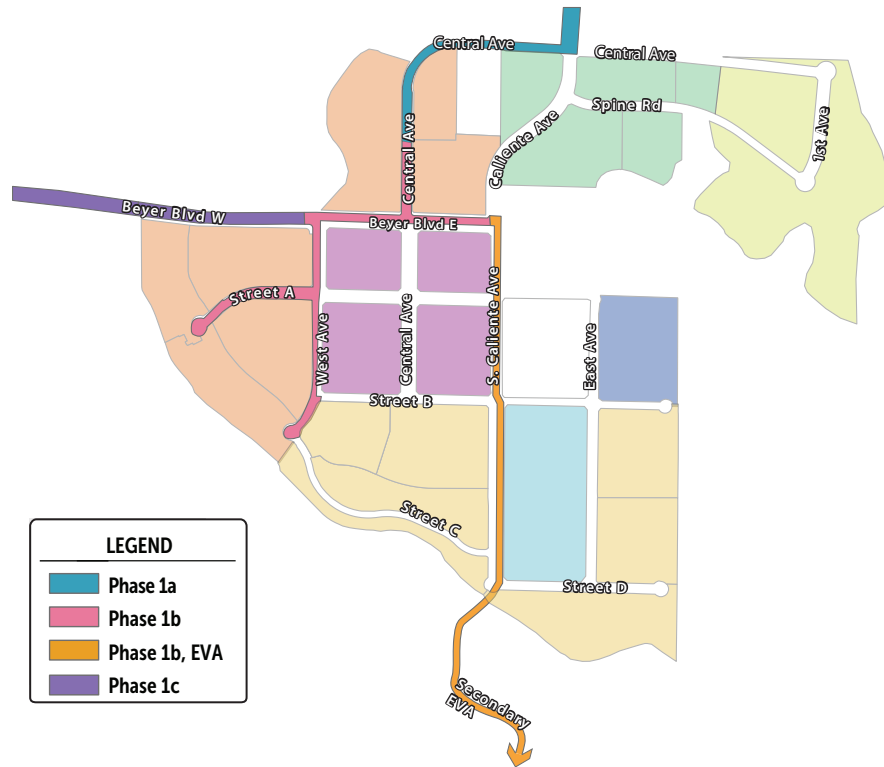


Figure 7.2 – Phase 1 Roadways



Note: Phase 1b, Secondary Emergency Vehicle Access Road at the eastern terminus of East Beyer Boulevard and the future South Caliente Avenue intersection, extending south to Rail Court, as shown, will be implemented at the 201st dwelling unit. Refer to Section 7.9, Supplemental Development Regulations

Note: Phase 1c, Beyer Boulevard West, will be implemented prior to the 700th dwelling unit in Phase 1.

Figure 7.3 – Phase 2 Roadways



Note: Secondary Emergency Vehicle Access Road will extend south to Rail Court.

Figure 7.4 – Phase 3 Roadways



Note: Secondary Emergency Vehicle Access Road will extend south to Rail Court.

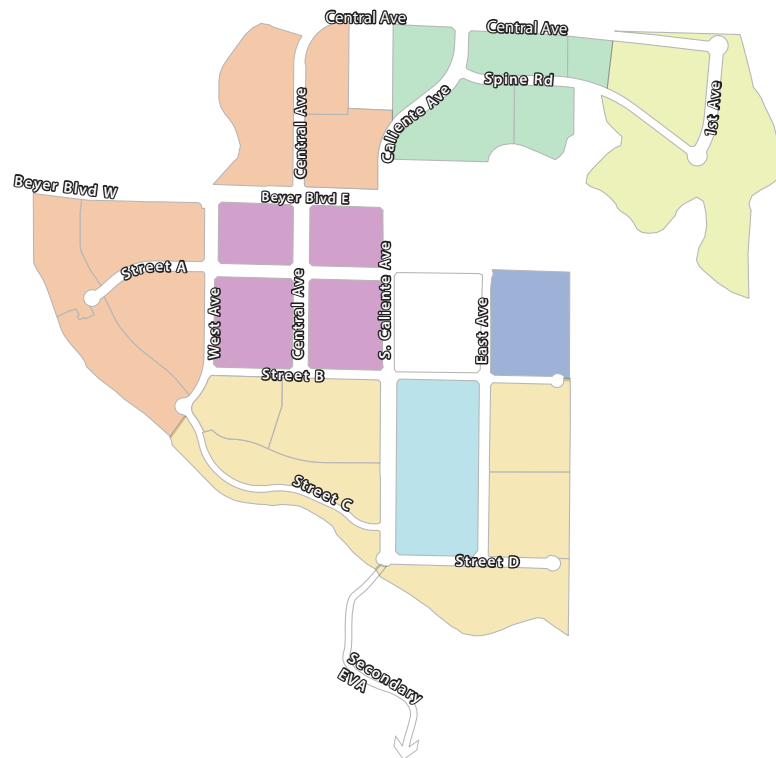
Figure 7.5 – Phase 4 Roadways



Note: Off-site improvements will widen Bayer Boulevard between East Bayer Boulevard /Otay Mesa Road to Enright Drive prior to the 3,298th dwelling unit.

Note: Secondary Emergency Vehicle Access Road will extend south to Rail Court.

Figure 7.6 – Phase 5 Roadways



Note: No additional streets are expected to be required in this phase.

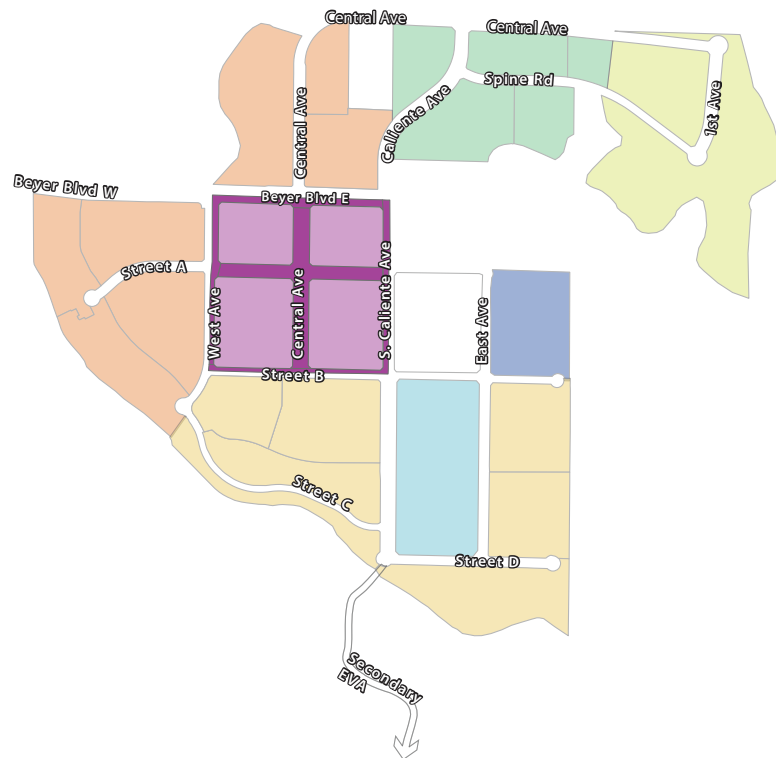
Note: Secondary Emergency Vehicle Access Road will extend south to Rail Court.

Figure 7.7 – Phase 6 Roadways



Note: Secondary Emergency Vehicle Access Road will extend south to Rail Court..

Figure 7.8 – Phase 7 Roadways



Note: Secondary Emergency Vehicle Access Road will extend south to Rail Court.

Table 7.3 – Trip Generation by Phase

| PHASE & LAND USE | | RESIDENTIAL DAILY TRIP RATES | NON-RESIDENTIAL DAILY TRIP RATES | DAILY TRIPS | AM PEAK HOUR TRIPS | | | PM PEAK HOUR TRIPS | | |
|----------------------------------|--|------------------------------|--|-------------|--------------------|------------|------------|--------------------|------------|--------------|
| | | | | | IN | OUT | TOTAL | IN | OUT | TOTAL |
| 1 | City SD Trip Rates: Single Family | 10 /DU 543 DU | | 5,430 | 20% 87 | 80% 347 | 8% 434 | 70% 380 | 30% 163 | 10% 543 |
| | City SD Trip Rates: Multi-Family < 20 du/ac | 8 /DU 490 DU | | 3,920 | 20% 63 | 80% 251 | 8% 314 | 70% 274 | 30% 118 | 10% 392 |
| | City SD Trip Rates: Multi-Family > 20 du/ac | 6 /DU 282 DU | | 1,692 | 20% 27 | 80% 108 | 8% 135 | 70% 106 | 30% 46 | 9% 152 |
| | Phase 1 Totals | 1,315 DU | | 11,042 | 177 | 706 | 883 | 761 | 326 | 1,087 |
| 2 | City SD Trip Rates: Single Family | 10 /DU 615 DU | | 6,150 | 20% 98 | 80% 394 | 8% 492 | 70% 431 | 30% 185 | 10% 615 |
| | City SD Trip Rates: Multi-Family < 20 du/ac | 8 /DU 237 DU | | 1,896 | 20% 30 | 80% 122 | 8% 152 | 70% 133 | 30% 57 | 10% 190 |
| | City SD Trip Rates: Elementary School (1) | | 2.9 /Student 600 Students | 1,740 | 60% 323 | 40% 216 | 31% 539 | 40% 132 | 60% 199 | 19% 331 |
| | City SD Trip Rates: Developed Park | | 50 /Acre 10.5 Acres | 525 | 50% 11 | 50% 11 | 4% 21 | 50% 21 | 50% 21 | 8% 42 |
| | Phase 2 Totals | 852 DU | | 10,311 | 463 | 742 | 1,204 | 717 | 461 | 1,178 |
| 3 | City SD Trip Rates: Multi-Family < 20 du/ac | 8 /DU 819 DU | | 6,552 | 20% 105 | 80% 419 | 8% 524 | 70% 459 | 30% 197 | 10% 655 |
| 4 | City SD Trip Rates: Developed Park | | 50 /Acre 7.6 Acres | 380 | 50% 6 | 50% 6 | 4% 14 | 50% 15 | 50% 15 | 8% 30 |
| | City SD Trip Rates: Elementary School (2) | | 2.9 /Student 668 Students | 1,937 | 60% 361 | 40% 240 | 31% 601 | 40% 147 | 60% 221 | 19% 368 |
| | City SD Trip Rates: Multi-Family < 20 du/ac | 8 /DU 384 DU | | 3,072 | 20% 49 | 80% 197 | 8% 246 | 70% 215 | 30% 92 | 10% 307 |
| | Phase 4 Totals | 384 DU | | 5,389 | 416 | 443 | 861 | 377 | 328 | 705 |
| 5 | City SD Trip Rates: Multi-Family < 20 du/ac | 8 /DU 306 DU | | 2,448 | 20% 39 | 80% 157 | 8% 196 | 70% 172 | 30% 74 | 10% 245 |
| 6 | City SD Trip Rates: Multi-Family < 20 du/ac | 8 /DU 306 DU | | 2,136 | 20% 34 | 80% 137 | 8% 171 | 70% 150 | 30% 64 | 10% 214 |
| 7 | City SD Trip Rates: Multi-Family > 20 du/ac | 6 /DU 1,187 DU | | 7,122 | 20% 114 | 80% 456 | 8% 570 | 70% 449 | 30% 192 | 9% 641 |
| | City SD Trip Rates: Community Shopping Cnt | | 70 /KSF 175 KSF | 12,250 | 60% 221 | 40% 147 | 3% 368 | 50% 613 | 50% 613 | 10% 1,226 |
| | Phase 7 Totals | 1,187 DU | | 19,372 | 335 | 603 | 938 | 1,062 | 805 | 1,867 |
| Overall Target Density/Intensity | | 5,130 DU | 175 KSF 1 School (1) Comm. & 1 Park | 57,250 | 1,569 | 3,208 | 4,777 | 3,696 | 2,254 | 5,950 |
| Total Remaining | | 5,130 DU | 175 KSF 1 School (1) Comm. & 1 Park | 57,250 | 1,569 | 3,208 | 4,777 | 3,696 | 2,254 | 5,950 |

Source: City of San Diego Trip Generation Manual, May 2003. DU: Dwelling Unit, KSF=1,000s.f. (1) In the unlikely event a school is not needed on PA 16, the planning area will default to Medium Density Residential use. Although the contingency for Planning Area 16 would result in approximately 136 additional dwelling units, the maximum dwelling unit cap of 5,130 units would still apply. Comm. = Commercial

7.15 — MAINTENANCE

Table 7.4, Maintenance Responsibilities, summarizes the anticipated long-term maintenance responsibilities for facilities within the Southwest Village Specific Plan area.

Table 7.4 — Maintenance Responsibilities

| FACILITY | RESPONSIBILITY |
|---|--|
| Public Common Open Space (Including Common Area Slopes) | Master Maintenance Association |
| Common Area Slopes (Including Common Area Slopes) | Master Maintenance Association |
| Private Common Open Space | Master Maintenance Association |
| Public Roadways | City of San Diego |
| Standard Public Road Improvements | City of San Diego |
| Landscape Elements of Public Roadways | Master Maintenance Association / Maintenance Assessment District |
| Private Drives | Master Maintenance Association |
| School Site | San Ysidro School District or other school operator |
| City-Owned Parks and Trails | City of San Diego |
| Privately-Owned Parks and Trails | Master Maintenance Association |
| Pedestrian Paseos (outside the Public Right-of-Way) | Master Maintenance Association |
| Natural Open Space | Master Maintenance Association |
| Community Monuments and Hardscaping (outside the Public Right-of-Way) | Master Maintenance Association |
| Brush Management Zones | Master Maintenance Association / private property owner |
| Potable Water Facilities | City of San Diego |
| Wastewater Treatment and Conveyance Facilities | City of San Diego |
| Storm Drain Facilities (within the Public Right-of-Way) | City of San Diego |
| Storm Drain Facilities (within private streets) | Master Maintenance Association |
| Detention / Water Quality Basins | Master Maintenance Association |
| Pedestrian-Scale Lighting (within the Public Right-of-Way) | Master Maintenance Association |
| Lighting (in common areas outside the Public Right-of-Way) | Master Maintenance Association |
| Wayfinding Signage | Master Maintenance Association |

7.16 — AIRPORT INFLUENCE AREA

Property within the Specific Plan area is located in the vicinity of an airport, within what is known as an Airport Influence Area (AIA). For that reason, properties within the Specific Plan area may be subject to some of the annoyances or inconveniences associated with proximity to airport operations, which can include noise, vibration, or odors. A formal overflight disclosure statement will be recorded in each property's chain of title to inform current and prospective property owners about the potential airport-related effects.

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APPENDICES



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A

LANDSCAPE PLANT
PALETTE

Table A.1 – Neighborhood Plant Palette

TREES (24" box min.) such as:

| BOTANICAL NAME | COMMON NAME | MATURE HEIGHT / SPREAD | WUCOLS | COMMENT |
|-----------------------------------|-------------------|------------------------|--------|-------------------|
| Albizia julibrissin ¹ | Mimosa | 30x40 | L | Canopy |
| Cinnamomum camphora | Camphor Tree | 20x20 | M | |
| Lagerstroemia indica | Crape Myrtle | 25x12 | M | Upright/Deciduous |
| Geijera parviflora | Australian Willow | 20x15 | L | Upright/Evergreen |
| Tipuana tipu | Tipu Tree | 25x25 | L | Canopy |
| Quercus agrifolia | Coast Live Oak | 25x20 | L | |
| Podocarpus gracilior | Yew Pine | 20x15 | M | Upright/Evergreen |
| Parkinsonia aculeata ¹ | Palo Verde | 20x20 | L | Upright/Deciduous |
| Pistacia chinensis ¹ | Chinese Pistache | 40x40 | M | Broadhead |

SHRUBS (60% 5 gal./ 40% 5 gal.) such as:

| BOTANICAL NAME | COMMON NAME | MATURE HEIGHT / SPREAD | WUCOLS | COMMENT |
|-----------------------------|-------------------|------------------------|--------|--------------------|
| Agave attenuata | Foxtail Agave | 3x3 | L | Flowering Accent |
| Anigozanthos flavidus | Kangaroo Paw | 2x3 | M | Midstory/Evergreen |
| Dasyliirion wheeleri | Desert Spoon | 3x3 | L | |
| Cistus spp. ¹ | Rockrose | 4x4 | L | Flowering Accent |
| Dietes bicolor | Fortnight Lily | 3x3 | L | Flowering Accent |
| Hesperaloe parviflora | Red Yucca | 3x3 | L | Midstory/Evergreen |
| Russelia equisetiformis | Firecracker Bush | 4x4 | L | Midstory/Evergreen |
| Aloe barbadensis | Aloe Vera | 3x3 | L | Flowering Accent |
| Salvia leucantha 'Midnight' | Mexican Bush Sage | 3x3 | L | Flowering Accent |
| Rhus ovata | Sugar Bush | 6x6 | VL | Large Background |

Table A.1 – Neighborhood Plant Palette (Continued)

GROUNDCOVER (pots @ 12" o.c.) such as:

| BOTANICAL NAME | COMMON NAME | MATURE HEIGHT / SPREAD | WUCOLS | COMMENT |
|----------------------|------------------------|------------------------|--------|----------|
| Carex pansa | California Meadow Sage | 1x1 | M | Parkways |
| Senecio mandraliscae | Blue Chalk sticks | 1x3 | L | Parkways |

1. This plant species shall be planted at least 200 feet away from Non-Developable Open Space and MHPA areas identified on Figure 5.22 of this Specific Plan.

Table A.2 – Streetscapes and Entries Plant Palette

TREES (24" box min.) such as:

| BOTANICAL NAME | COMMON NAME | MATURE HEIGHT / SPREAD | WUCOLS | COMMENT |
|---------------------------|--------------------------|------------------------|--------|-------------------|
| Lophostemon confertus | Brisbane Box | 35 x 35 | M | Upright/Evergreen |
| Jacaranda mimosifolia | Jacaranda | 25 x 30 | M | |
| Magnolia grandiflora | Southern Magnolia | 60x40 | M | |
| Cercidium 'Desert Museum' | Desert Museum Palo Verde | 20x20 | L | Upright/Deciduous |
| Platanus racemosa | California Sycamore | 60x50 | M | Upright/Deciduous |
| Quercus agrifolia | Coast Live Oak | 50x45 | VL | Broadhead |
| Rhus lancea ¹ | African Sumac | 25x25 | L | Multi-trunked |

PALMS (only to be used as special markers of entries and not to be located within 100 feet of homes)

| BOTANICAL NAME | COMMON NAME | MATURE HEIGHT / SPREAD | WUCOLS | COMMENT |
|----------------------------------|------------------------|------------------------|--------|---------|
| Chamaerops humilis | Mediterranean Fan Palm | 20 x 20 | M | |
| Trachycarpus fortunei | Windmill Palm | 30X10 | M | |
| Brahea armata | Mexican Blue Palm | 30X15 | L | |
| Phoenix dactylifera ¹ | Date Palm | 60X20 | L | |

Table A.2 – Streetscapes and Entries Plant Palette (Continued)

SHRUBS (25% 15 gal./50% 5 gal/ 25% 1 gal) such as:

| BOTANICAL NAME | COMMON NAME | MATURE HEIGHT / SPREAD | WUCOLS | COMMENT |
|-------------------------------------|----------------------|------------------------|--------|------------------|
| Agave attenuata | Fox Tail Agave | 3x3 | L | Flowering Accent |
| Agave SPP | Agave | 3x3 | L | Accent shrub |
| Aloe saponaria | African Aloe | 3x3 | L | Midstory Shrub |
| Anigozanthos flavidus | Kangaroo Paw | 2x3 | M | Flowering Shrub |
| Cistus spp. ¹ | Rockrose | 4x4 | L | Flowering Shrub |
| Dasyliion wheeleri | Desert Spoon | 5x6 | VL | Midstory Shrub |
| Escallonia fradesii | Escallonia | 4x4 | M | |
| Leptospermum scoparium ¹ | New Zealand Tea Tree | 6x4 | M | Large Background |
| Russelia equisetiformis | Firecracker Bush | 4x4 | L | Large Background |
| Phormium 'Maori Maiden' | New Zealand Flax | 4x4 | M | Midstory Shrub |
| Dietes vegeta | Fortnight lily | 3x3 | L | Midstory Shrub |
| Rosmarinus 'Prostratus' | Prostrate Rosemary | 1x3 | L | Low Spreading |
| Salvia leucantha 'Midnight' | Mexican Sage Bush | 3x3 | M | Flowering Accent |

VINES (100% 15 gal.)

| BOTANICAL NAME | COMMON NAME | MATURE HEIGHT / SPREAD | WUCOLS | COMMENT |
|-------------------------|---------------|------------------------|--------|---------------|
| Bougainvillea spp. | Bougainvillea | 4x4 | L | San Diego Red |
| Ficus pumila | Creeping Fig | 4x4 | M | |
| Macfadyena unguis-cati | Cat's Claw | 15' | L | |
| Passiflora alatocaerula | Passion Vine | 4x4 | M | |

GRASSES (100% 15 gal.)

| BOTANICAL NAME | COMMON NAME | MATURE HEIGHT / SPREAD | WUCOLS | COMMENT |
|-----------------------------|----------------|------------------------|--------|---------|
| Chondropetalum tectorum | Cape Rush | 3x3 | L | |
| Festuca glauca | Blue Fescue | 1x1 | L | |
| Helictotrichon sempervirens | Blue Oat Grass | 2x2 | M | |
| Muhlenbergia rigens | Deergrass | 4x5 | L | |

Table A.2 – Streetscapes and Entries Plant Palette (Continued)

GROUNDCOVER (1 gal. min.) such as:

| BOTANICAL NAME | COMMON NAME | MATURE HEIGHT / SPREAD | WUCOLS | COMMENT |
|--------------------------|-------------------------|-------------------------------|---------------|----------------|
| Convolvulus mauritanicus | Ground Morning Glory | 1x3 | M | Groundcover |
| Carex pansa | California Meadow Sedge | 1x1 | M | Groundcover |
| Dymondia margaretae | Silver Carpet | 3"x2 | L | Groundcover |
| Senecio mandraliscae | Blue Chalk Sticks | 1x3 | L | Groundcover |
| Verbena peruviana | N.C.N. | 2x2 | M | |

1. This plant species shall be planted at least 200 feet away from Non-Developable Open Space and MHPA areas identified on Figure 5.22 of this Specific Plan.

Table A.3 – Developed Parks Plant Palette

TREES (24" box min.) such as:

| BOTANICAL NAME | COMMON NAME | MATURE HEIGHT / SPREAD | WUCOLS | COMMENT |
|----------------------------------|--------------------------|------------------------|--------|---------------------|
| Albizia julibrissin ¹ | Mimosa | 30x40 | L | Broadhead/Evergreen |
| Lagerstroemia indica | Crape Myrtle | 25x12 | M | Single Trunk |
| Prosopis velutina ¹ | Velvet Mesquite | 30x30 | L | Upright/Evergreen |
| Cercidium 'Desert Museum' | Desert Museum Palo Verde | 20x20 | L | Upright/Deciduous |
| Platanus racemosa | Western Sycamore | 60x50 | S | Upright/Deciduous |
| Quercus agrifolia | Coast Live Oak | 50x45 | VL | Broadhead |
| Rhus lancea ¹ | African Sumac | 25x25 | L | Multi-Trunked |
| Tipuana tipu ¹ | Tipu Tree | 25x25 | L | Single Trunk |

PALMS (only to be used as special markers of entries and not to be located within 100 feet of homes)

| BOTANICAL NAME | COMMON NAME | MATURE HEIGHT / SPREAD | WUCOLS | COMMENT |
|----------------------------------|------------------------|------------------------|--------|---------|
| Phoenix dactylifera ¹ | Date Palm | 60x20 | L | |
| Chamaerops humilis | Mediterranean Fan Palm | 20x20 | M | |
| Trachycarpus fortunei | Windmill Palm | 30X10 | M | |
| Brahea armata | Mexican Blue Palm | 30X15 | L | |

Table A.3 – Developed Parks Plant Palette (Continued)

SHRUBS (25% 15 gal./50% 5 gal./ 25% 1 gal.) such as:

| BOTANICAL NAME | COMMON NAME | MATURE HEIGHT / SPREAD | WUCOLS | COMMENT |
|-------------------------------------|----------------------|------------------------|--------|------------------|
| Agave attenuata | Fox Tail Agave | 3x3 | L | Flowering Accent |
| Aloe barbadensis | Aloe Vera | 3x3 | L | Flowering Accent |
| Aloe saponaria | African Aloe | 3x3 | L | Flowering Shrub |
| Anigozanthos flavidus | Kangaroo Paw | 2x3 | M | Flowering Shrub |
| Cistus spp. ¹ | Rockrose | 4x4 | L | Flowering Shrub |
| Calliandra eriophylla | Fairy Duster | 3x4 | VL | Flowering Shrub |
| Dietes bicolor | Fortnight Lily | 3x3 | L | Flowering Accent |
| Leptospermum scoparium ¹ | New Zealand Tea Tree | 6x4 | M | Large Background |
| Phormium 'Maori Maiden' | New Zealand Flax | 4x4 | L | Low Spreading |
| Rosmarinus spp. | Prostrate Rosemary | 1x3 | L | Low Spreading |
| Salvia leucantha 'Midnight' | Mexican Bush Sage | 3x3 | M | Flowering Accent |

VINES (100% 15 gal.)

| BOTANICAL NAME | COMMON NAME | MATURE HEIGHT / SPREAD | WUCOLS | COMMENT |
|-------------------------------|-----------------------------|------------------------|--------|-----------|
| Clytostoma callistigiodes | Violet Trumpet Vine | 4x4 | M | Flowering |
| Ficus pumila | Creeping Fig | 4x4 | M | Flowering |
| Passiflora alatocaerulea | Passion Vine | 4x4 | M | Flowering |
| Bougainvillea 'San Diego Red' | San Diego Red Bougainvillea | 4x4 | L | Flowering |

Table A.3 – Developed Parks Plant Palette (Continued)

GRASSES such as:

| BOTANICAL NAME | COMMON NAME | MATURE HEIGHT / SPREAD | WUCOLS | COMMENT |
|-----------------------------|----------------|------------------------|--------|---------|
| Chondropetalum tectorum | Cape Rush | 3x3 | L | |
| Festuca glauca | Blue Fescue | 1x1 | L | |
| Helictotrichon sempervirens | Blue Oat Grass | 1x1 | M | |
| Muhlenbergia rigens | Deergrass | 4x5 | L | |

GROUNDCOVER (1 gal. min.) such as:

| BOTANICAL NAME | COMMON NAME | MATURE HEIGHT / SPREAD | WUCOLS | COMMENT |
|----------------------|-------------------------|------------------------|--------|-------------|
| Carex pansa | California Meadow Sedge | 1x1 | M | Groundcover |
| Dymondia margaretae | Silver Carpet | 3" x 2 | L | Groundcover |
| Senecio mandraliscae | Blue Chalk Sticks | 1x3 | L | Groundcover |
| Festuca spp. | Marathon Sod I | 4"x6" | M | Turf |

1. This plant species shall be planted at least 200 feet away from Non-Developable Open Space and MHPA areas identified on Figure 5.22 of this Specific Plan.

Table A.4 – Interior Slope Plant Palette

TREES (36" box min.) such as:

| BOTANICAL NAME | COMMON NAME | MATURE HEIGHT / SPREAD | WUCOLS | COMMENT |
|-----------------------|------------------|------------------------|--------|-------------------|
| Jacaranda mimosifolia | Jacaranda | 25x30 | M | Multi-trunked |
| Cercis occidentalis | Western Redbud | 10x10 | L | Multi-trunked |
| Platanus racemosa | Western Sycamore | 60x50 | M | Upright/Deciduous |
| Quercus agrifolia | Coast Live Oak | 50x45 | VL | Broadhead |

SHRUBS (25% 15 gal./ 50% 5 gal./25% 1 gal.) such as:

| BOTANICAL NAME | COMMON NAME | MATURE HEIGHT / SPREAD | WUCOLS | COMMENT |
|-------------------------------------|----------------------|------------------------|--------|------------------|
| Cistus spp. ¹ | Rockrose | 4x4 | L | |
| Escallonia fradesii | Escallonia | 4x4 | M | |
| Leptospermum scoparium ¹ | New Zealand Tea Tree | 6x4 | M | Large Background |
| Salvia Clevelandii | California Blue Sage | 3x3 | VL | |
| Rosmarinus 'Prostratus' | Prostrate Rosemary | 1x3 | L | Low Spreading |

VINES (100% 5 gal.) such as:

| BOTANICAL NAME | COMMON NAME | MATURE HEIGHT / SPREAD | WUCOLS | COMMENT |
|-----------------------|---------------|------------------------|--------|-----------------|
| Calliandra eriophylla | Fairy Duster | 4x4 | VL | |
| Ficus pumila | Creeping Fig | 4x4 | M | |
| Bougainvillea spp. | Bougainvillea | 4x4 | L | 'San Diego Red' |

GROUNDCOVER (pots @ 12" o.c.) such as:

| BOTANICAL NAME | COMMON NAME | MATURE HEIGHT / SPREAD | WUCOLS | COMMENT |
|--------------------------------|----------------|------------------------|--------|---------|
| Coprosma kirkii | N.C.N. | 2x4 | M | |
| Ceanothus griseus horizontalis | Carmel Creeper | 2x5 | L | |

1. This plant species shall be planted at least 200 feet away from Non-Developable Open Space and MHPA areas identified on Figure 5.22 of this Specific Plan.

Table A.5 – Exterior Slope Plant Palette for Manufactured Slopes

TREES (15-gal. min.) such as:

| BOTANICAL NAME | COMMON NAME | MATURE HEIGHT / SPREAD | WUCOLS | COMMENT |
|--------------------------|--------------------|------------------------|--------|--------------------|
| Arbutus x 'marina' | Strawberry Tree | 25x25 | L | Upright |
| Parkinsonia aculeata | Palo Verde | 20x20 | L | Upright/Deciduous |
| Platanus racemosa | Western Sycamore | 60x50 | M | Upright/Deciduous |
| Populus fremontii | Fremont Cottonwood | 60x25 | L | Vertical/Deciduous |
| Quercus agrifolia | Coast Live Oak | 50x45 | VL | Broadhead |
| Rhus lancea ¹ | African Sumac | 25x25 | L | Multi-Trunked |

SHRUBS (25% 5 gal. / 75% 1 gal.) such as:

| BOTANICAL NAME | COMMON NAME | MATURE HEIGHT / SPREAD | WUCOLS | COMMENT |
|--------------------------|-----------------------------|------------------------|--------|---------|
| Ceanothus 'Julia Phelps' | California Lilac | 5x8 | L | |
| Cercocarpus betuloides | Mountain Mahogany | 6x6 | VL | |
| Heteromeles arbutifolia | Toyon | 25x20 | L | |
| Rhus laurina | Laurel Sumac | 10x10 | VL | |
| Rhamnus crocea | Spiny Redberry | 3x5 | VL | |
| Rhus integrifolia | Lemonade Berry | 10x15 | VL | |
| Ribes speciosum | Fuchsia Flowered Gooseberry | 6x6 | L | |
| Yucca spp. | Yucca | 50 | L | |
| Iva havesiana | San Diego Marsh-Elder | 1x5 | VL | |

GROUNDCOVER (1-gal. min.) such as:

| BOTANICAL NAME | COMMON NAME | MATURE HEIGHT / SPREAD | WUCOLS | COMMENT |
|--------------------------------|-------------------|------------------------|--------|---------|
| Arctostaphylos uva-ursi | Bearberry | 1x10 | - | |
| Baccharis 'Pigeon Point' | Dwarf Coyote Bush | 1x6 | VL | |
| Ceanothus griseus horizontalis | Carmel Creeper | 2x5 | L | |

Table A.6 – Trailhead Plant Palette

TREES (36" box min.) such as:

| BOTANICAL NAME | COMMON NAME | MATURE HEIGHT / SPREAD | WUCOLS | COMMENT |
|--------------------------|-----------------|------------------------|--------|---------------|
| Rhus lancea ¹ | African Sumac | 25x25 | L | Multi-trunked |
| Arbutus x 'marina' | Strawberry Tree | 25x25 | L | |
| Cercis occidentalis | Western Redbud | 10x10 | L | |

SHRUBS (25% 15 gal./50% 5 gal./ 25% 1 gal.) such as:

| BOTANICAL NAME | COMMON NAME | MATURE HEIGHT / SPREAD | WUCOLS | COMMENT |
|------------------------------------|------------------------------|------------------------|--------|---------|
| Fremontadendron 'California Glory' | Flannel Bush | 15x15 | VL | |
| Rhamnus californica 'Eva Case' | Compact Coffeeberry | 8x8 | VL | |
| Artemisia californica | Artemisia | 3x5 | VL | |
| Muhlenbergia rigens | Deer Grass | 3x3 | VL | |
| Salvia clevelandii | Cleveland Sage | 2x3 | VL | |
| Salvia gregii | Autumn Sage | 2x2 | VL | |
| Mimulus aurantiacus | Coast Monkey Flower | 2x2 | VL | |
| Ribes speciosum | Fuchsia-Flowering Gooseberry | 2x2 | VL | |
| Carex tumulicola | Foothill Sedge | 1x1 | L | |
| Juncus patens | Juncus 'Elk Blue' | 3x3 | L | |
| Achillea millefolium | Common Yarrow | 3x3 | L | |
| Heuchera maxima | Island Alum Root | 1x1 | L | |
| Arctostophylos 'Emerald Carpet' | Manzanita | 1x5 | VL | |
| Ceanothus 'Yankee Point' | Ceanothus | 1x5 | VL | |

1. This plant species shall be planted at least 200 feet away from Non-Developable Open Space and MHPA areas identified on Figure 5.22 of this Specific Plan.

Table A.7 – MHPA Adjacent Lands and Brush Management Zone 2 Plant Palette

| BOTANICAL NAME | APPLICATION RATE LBS. PLS/ACRE | NOTES |
|---------------------------------------|--------------------------------|--|
| <i>Acmispon glaber</i> | 2 | Seed source should originate within coastal regions of San Diego. Substitutions to this list are acceptable as long as the seed is sourced from within 20 miles of the site. |
| <i>Astragalus trichopodus lonchus</i> | 0.5 | |
| <i>Encelia californica</i> | 1 | Restoration for any graded areas of the MHPA are required to be restored. |
| <i>Gutierrezia californica</i> | 0.1 | |
| <i>Isocoma menziesii</i> | 0.5 | Provide native trees/shrubs (minimum 1 gallon container size) at a rate of one plant per 100 square feet of disturbed areas in addition to the MHPA hydroseed mix. |
| <i>Malosma laurina</i> | 1 | |
| <i>Stipa pulchra</i> | 2 | |
| <i>Salvia apiana</i> | 0.5 | |
| <i>Yucca schidigera</i> | 1 | |
| <i>Sisyrinchium bellum</i> | 1 | |
| <i>Dichelostemma capitatum</i> | 0.2 | |
| <i>Ambrosia chenopodiifolia</i> | 2 | |
| <i>Corethrogyne filaginifolia</i> | 0.1 | |
| <i>Hazardia squarrosa</i> | 0.3 | |
| <i>Phacelia cicutaria hispida</i> | 0.5 | |
| <i>Peritoma arborea</i> | 2 | |
| <i>Adolphia californica</i> | N/A | Should be planted from containers |
| <i>Simmondsia chinensis</i> | 1 | |
| <i>Lycium californicum</i> | N/A | Should be planted from containers |
| <i>Stipa lepida</i> | 2 | |
| <i>Deinandra fasciculata</i> | 1 | |
| <i>Cylindropuntia prolifera</i> | N/A | Should be planted from containers |
| <i>Opuntia littoralis</i> | N/A | Should be planted from containers |
| <i>Euphorbia misera</i> | N/A | Should be planted from containers |

Table A.8 – Wildlife Overcrossing Plant Palette

SHRUBS (25% 5 gal. / 75% 1 gal.) such as:

| BOTANICAL NAME | COMMON NAME | MATURE HEIGHT / SPREAD | TYPE |
|--------------------------|----------------------|------------------------|------------------|
| Cylindropuntia prolifera | Coast cholla | 10 x 4 | Upright |
| Encelia californica | Bush sunflower | 4 x 6 | Flowering |
| Eriogonum fasciculatum | California buckwheat | 5 x 5 | |
| Malosma laurina | Laurel sumac | 10 x 10 | Large Background |
| Opuntia littoralis | Coast prickly pear | 3 x 5 | Succulent |
| Peritoma arborea | Bladderpod | 6 x 6 | Mounding |
| Rhus integrifolia | Lemonade berry | 10 x 15 | Large Background |
| Salvia mellifera | Black sage | 5 x 8 | Mounding |
| Yucca schidigera | Mojave yucca | 10 x 5 | Succulent |

GRASSES (1 gal. min.) such as:

| BOTANICAL NAME | COMMON NAME | MATURE HEIGHT / SPREAD | TYPE |
|----------------|----------------------------|------------------------|--------|
| Stipa pulchra | Purple needlegrass | 3 x 1.5 | Accent |
| Stipa lepida | Small-flowered needlegrass | 3 x 2 | Accent |

INSECT HOST / NECTAR SPECIES (QUINO CHECKERSPOT BUTTERFLY and CROTCH'S BUMBLEBEE)

| BOTANICAL NAME | COMMON NAME | MATURE HEIGHT / SPREAD | TYPE |
|--------------------------|----------------------|------------------------|-------------------|
| Asclepias fascicularis | Narrow-leaf milkweed | 4 x 4 | Accent |
| Castilleja exserta | Purple owl's clover | Low | Herbaceous Annual |
| Clarkia delicata | Delicate clarkia | Low | Herbaceous Annual |
| Clarkia unguiculata | Elegant clarkia | Low | Herbaceous Annual |
| Eschscholzia californica | California poppy | 3 x 2 | Herbaceous Annual |
| Lupinus bicolor | Miniature lupine | Low | Herbaceous Annual |
| Lupinus succulentus | Arroyo lupine | 5 x 5 | Herbaceous Annual |
| Plantago erecta | Dot-seed plantain | Low | Herbaceous Annual |

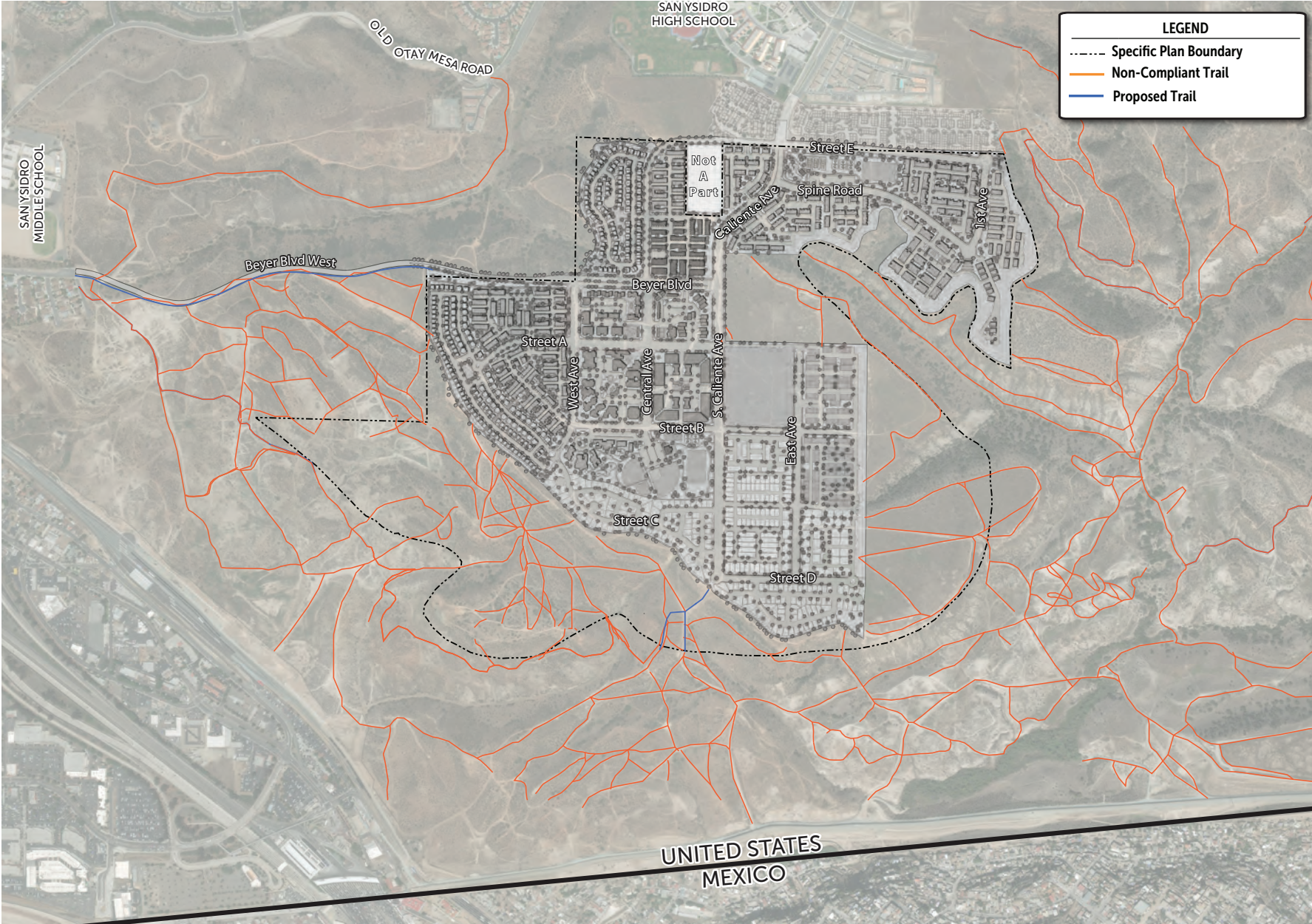
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A landscape photograph showing a dirt path leading through a field of dry grass and shrubs. The sky is a mix of dark blue and brownish-orange, suggesting a sunset or sunrise. The overall image has a blue color cast.


B

NON-COMPLIANT
TRAILS

Figure B.1 – Non-Compliant Trails



Note: Non-compliant trails will be closed within a 50-foot buffer around the trail (100-foot total).

A topographic map of Caliente, Nevada, with a grid overlay. A red square with a diagonal line is located in the upper left quadrant, with a line pointing to the text 'Caliente Avenue'. In the lower left quadrant, there is a red outline of an irregular shape with a line pointing to the text 'Borrow Site'. The map shows terrain contours and a network of roads.

Caliente
Avenue

Borrow Site



SPECIFIC PLAN IMPLEMENTATION TRACKING

C.1 – SPECIFIC PLAN IMPLEMENTATION TRACKING TABLE

The Implementation Tracking Table shall be included with development plans at the time of building permit application. The purpose of the table is to development applicant and the City staff in tracking the implementation of development use, parks, and average daily trips within the Specific Plan area.

Table C.1 - Specific Plan Implementation Tracking Table

| PLANNING AREA | DWELLING UNITS | COMMERCIAL (SF) | AVERAGE DAILY TRIPS (DRIVEWAY ADT) | AM PEAK HOUR TRIPS | | | PM PEAK HOUR TRIPS | | |
|---------------|----------------|-----------------|------------------------------------|--------------------|-----|-------|--------------------|-----|-------|
| | | | | IN | OUT | TOTAL | IN | OUT | TOTAL |
| 1 | | | | | | | | | |
| 2 | | | | | | | | | |
| 3 | | | | | | | | | |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |
| 6 | | | | | | | | | |
| 7 | | | | | | | | | |
| 8 | | | | | | | | | |
| 9 | | | | | | | | | |

| PLANNING AREA | DWELLING UNITS | COMMERCIAL (SF) | AVERAGE DAILY TRIPS (DRIVEWAY ADT) | AM PEAK HOUR TRIPS | | | PM PEAK HOUR TRIPS | | |
|---------------|----------------|-----------------|------------------------------------|--------------------|-----|-------|--------------------|-----|-------|
| | | | | IN | OUT | TOTAL | IN | OUT | TOTAL |
| 10 | | | | | | | | | |
| 11 | | | | | | | | | |
| 12 | | | | | | | | | |
| 13 | | | | | | | | | |
| 14 | | | | | | | | | |
| 15 | | | | | | | | | |
| 16 | | | | | | | | | |
| 17 | | | | | | | | | |
| 18 | | | | | | | | | |
| 19 | | | | | | | | | |
| 20 | | | | | | | | | |
| 21 | | | | | | | | | |

| PLANNING AREA | DWELLING UNITS | COMMERCIAL (SF) | AVERAGE DAILY TRIPS (DRIVEWAY ADT) | AM PEAK HOUR TRIPS | | | PM PEAK HOUR TRIPS | | |
|---------------|----------------|-----------------|------------------------------------|--------------------|-----|-------|--------------------|-----|-------|
| | | | | IN | OUT | TOTAL | IN | OUT | TOTAL |
| 22 | | | | | | | | | |
| 23 | | | | | | | | | |
| 24 | | | | | | | | | |
| 25 | | | | | | | | | |
| 26 | | | | | | | | | |
| 27 | | | | | | | | | |
| 28 | | | | | | | | | |
| 29 | | | | | | | | | |
| 30 | | | | | | | | | |
| Totals | | | | | | | | | |

A large, white, sans-serif letter 'D' is positioned in the upper right quadrant of the page. The background is a photograph of a desert trail, overlaid with a blue-to-purple gradient. In the lower center, two people are walking a dog on a dirt path. The overall scene is a natural, outdoor setting with sparse vegetation and hills in the distance.

D

LIST OF REFERENCES
AND TECHNICAL STUDIES

Southwest Village Specific Plan References and Technical Studies

City of San Diego Transportation & Storm Water Design Manuals. Street Design Manual. March 2017. https://www.sandiego.gov/sites/default/files/street_design_manual_march_2017-final.pdf.

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LOS Engineering, Inc. Southwest Village VTM 1 Local Mobility Analysis. April 2026.

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LOS Engineering, Inc. Southwest Village Programmatic Level VTM. April 2026.

LOS Engineering, Inc. Southwest Village Transportation Phasing Plan. April 2026.

RICK Engineering. Priority Development Project (PDF) Stormwater Water Quality Management Plan (SWQMP). April 2023.

RECON. Air Quality Analysis for the Southwest Village Specific Plan. March 2025.

RECON. Biological Resources Report for the Southwest Village Specific Plan. March 2026.

RECON. Results of the Historical Resources Investigation of the Southwest Village Specific Plan. March 2026.

RECON. Waste Management Plan for the Southwest Village Specific Plan. June 2024.

RICK Engineering. Drainage Study for Southwest Village VTM (Preliminary Engineering). May 2024.



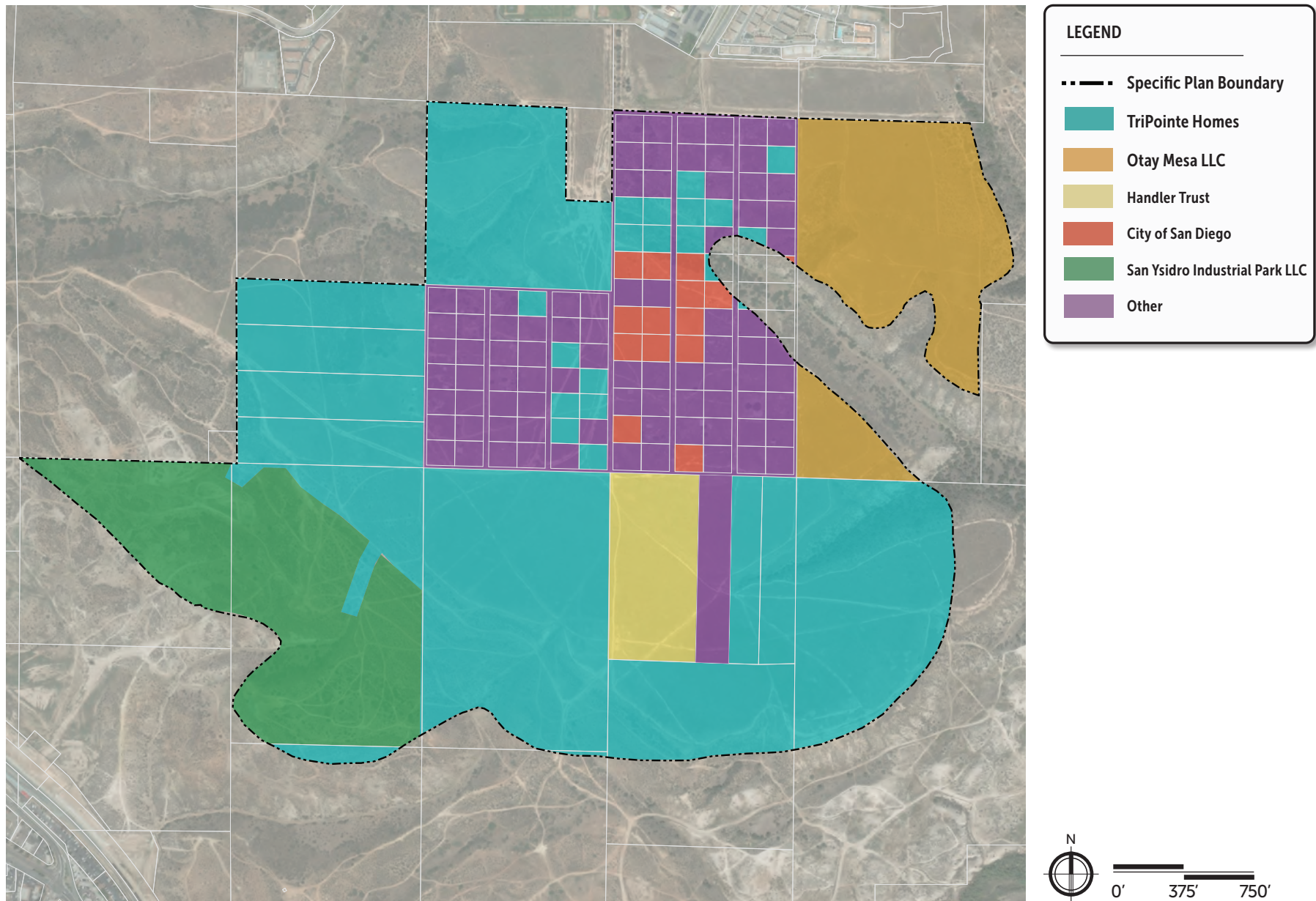
| BASIN 300 (NODE 380) | | |
|-----------------------------|-----------------------------|-----------------------------|
| PRE-PROJECT | POST-PROJECT | POST DETAINED |
| A = 27.6 ac | A = 23.1 ac | A = 23.1 ac |
| Q ₁₀₀ = 34.5 cfs | Q ₁₀₀ = 24.9 cfs | Q ₁₀₀ = 34.5 cfs |
| T _c = 17.6 min | T _c = 12.2 min | T _c = 19.4 min |
| v ₁₀₀ = x.x fps | v ₁₀₀ = x.x fps | v ₁₀₀ = x.x fps |

| BASIN 200 (NODE 290) | | |
|-----------------------------|-----------------------------|-----------------------------|
| PRE-PROJECT | POST-PROJECT | POST DETAINED |
| A = 61.4 ac | A = 61.3 ac | A = 61.3 ac |
| Q ₁₀₀ = 76.1 cfs | Q ₁₀₀ = 75.9 cfs | Q ₁₀₀ = 75.9 cfs |
| T _c = 18.0 min | T _c = 10.8 min | T _c = 18.8 min |
| v ₁₀₀ = x.x fps | v ₁₀₀ = x.x fps | v ₁₀₀ = x.x fps |

LAND OWNERSHIP MAP

E

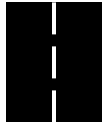
Figure E-1 - Property Ownership Map





F

TRANSPORTATION
PHASING PLAN



11622 El Camino Real, Suite #100, San Diego, CA 92130
Phone 619-890-1253, Email: Justin@LOSengineering.com

April 1, 2026

Ms. Ann Gonsalves, T.E.
City of San Diego
1222 First Avenue, MS 501
San Diego, CA 92101

Subject: Southwest Village Specific Plan Transportation Phasing Plan (PRJ-0614791)

Dear Ms. Gonsalves:

The Southwest Village Specific Plan (Specific Plan) provides a comprehensive policy framework intended to guide future development in Southwest Village, consistent with the City of San Diego - Otay Mesa Community Plan (OMCP) and City of Villages Strategy. This Phasing Plan includes the following sections:

- 1) Project Description and Trip Generation
- 2) Community Plan Circulation Changes
- 3) Planning Areas and Phasing
- 4) Community Access and On-Site Vehicular Circulation
- 5) Conclusion

PROJECT DESCRIPTION AND TRIP GENERATION

The Specific Plan encompasses approximately 490 acres, will allow up to 5,130 attached and detached residences, and will facilitate creation of a new village anchored by up to 175,000 square feet of commercial and retail uses in a mixed-use Village Core. The Specific Plan would provide public facilities including dedication of up to two new elementary schools, approximately 18.1 acres of publicly owned developed parks in addition to approximately 18 acres of trails, and approximately 185 acres of surrounding natural open space and habitat conservation.

Access to the Specific Plan area will be from two Mobility Element roadways, Caliente Avenue to the north and from an extension of Beyer Boulevard to the west, connecting the Specific Plan area to San Ysidro. If Beyer Blvd is not extended by the 200th unit, then an alternative secondary access is proposed south of the Specific Plan area along an existing utility road to be improved as an emergency vehicle access (EVA) road to facilitate regional fire and emergency response.

The Specific Plan contains 30 planning areas and identifies a range of allowable residential densities for each planning area to allow for flexibility in future planning and design. The following land use designations are proposed:

- Medium-Low Density Residential allowing 8 to 22 dwelling units per acre
- Medium Density Residential allowing 15 to 29 dwelling units per acre
- Medium-High Density Residential allowing 20 to 44 dwelling units per acre
- Residential Mixed-Use allowing up to 175,000 square feet of commercial and retail uses at a maximum Floor Area Ratio (FAR) of 3.0 and multi-family attached residential units at a density range of 30 to 62 dwelling units per acre.

Implementation of the Specific Plan will require a number of discretionary approvals including an amendment to the OMCP related to land use to refine the buildout of the Southwest District area as defined in the OMCP; roadway circulation classification change of Beyer Boulevard from a 4-Lane Major to a 4-Lane Modified Urban Collector and Caliente Avenue from a 6-Lane Major to a 4-lane Modified Urban Collector; a rezone to implement Specific Plan land uses; a Multi-Habitat Planning Area (MHPA) Boundary Line Adjustment (BLA); and approval of an update to the Otay Mesa Public Facilities Financing Plan to include new parks, a sewer pump station, and other public facilities to reflect the project needs.

Furthermore, since the Specific Plan is under multiple property ownerships and the timing of build-out is not known at this time, the ultimate mix of residential densities cannot be known with certainty. However, the following assumptions consistent with the Specific Plan land use framework were used in this analysis that identifies build-out of up to:

- 1,158 single family residential units
- 2,503 multi-family units under 20 dwelling units per acre
- 1,469 multi-family units over 20 dwelling unit per acre
- 175,000 SF Commercial/Retail
- 2 elementary schools

Under these land use assumptions, the Specific Plan has a calculated driveway trip generation of 57,250 ADT with 4,777 AM peak hour trips (1,569 inbound and 3,208 outbound) and 5,950 PM peak hour trips (3,696 inbound and 2,254 outbound). The City of San Diego *Otay Mesa Community Plan 2014* identified Southwest Village with 5,880 homes, 190,800 SF commercial, two elementary schools, and 40 acres of developed parks for a driveway trip generation of 64,393 ADT with 5,249 peak hour trips (1,690 inbound and 3,559 outbound) and 6,596 PM peak hour trips (4,108 inbound and 2,488 outbound). The proposed Specific Plan land use mix results in an overall reduction from the 2014 OMCPU in the amount of -7,143 ADT, -472 AM trips (-121 inbound and -351 outbound), and -646 PM trips (-412 inbound and -234 outbound) as shown in **Table 1**.

Table 1: Proposed and Adopted Specific Plan Uses and Traffic Comparison

| Land Use | ADT Rate | Size & Units | ADT | % | Split | AM | | | PM | | | | |
|--|--------------|----------------|---------------|-----|---------|-------------|-------------|-------------|-----|---------|-------------|-------------|-------------|
| | | | | | | IN | OUT | Total | % | Split | IN | OUT | Total |
| Single-Family | 10 /DU | 1,158 DU | 11,580 | 8% | 0.2 0.8 | 185 | 741 | 926 | 10% | 0.7 0.3 | 811 | 347 | 1,158 |
| Multi-Family (< 20 du/ac) | 8 /DU | 2,503 DU | 20,024 | 8% | 0.2 0.8 | 320 | 1,282 | 1,602 | 10% | 0.7 0.3 | 1402 | 601 | 2,003 |
| Multi-Family (>20 du/ac) | 6 /DU | 1,469 DU | 8,814 | 8% | 0.2 0.8 | 141 | 564 | 705 | 9% | 0.7 0.3 | 555 | 238 | 793 |
| Community Shopping Cnt | 70 /KSF | 175,000 SF | 12,250 | 3% | 0.6 0.4 | 221 | 147 | 368 | 10% | 0.5 0.5 | 613 | 613 | 1,226 |
| Two Elem. Schools (1) | 2.9 /Student | 1,268 Students | 3,677 | 31% | 0.6 0.4 | 684 | 456 | 1,140 | 19% | 0.4 0.6 | 279 | 419 | 698 |
| Developed Park | 50 /Acre | 18.1 Acres | <u>905</u> | 4% | 0.5 0.5 | <u>18</u> | <u>18</u> | <u>36</u> | 8% | 0.5 0.5 | <u>36</u> | <u>36</u> | <u>72</u> |
| Proposed Southwest Village Driveway Totals | | | 57,250 | | | 1,569 | 3,208 | 4,777 | | | 3,696 | 2,254 | 5,950 |
| Single-Family | 10 /DU | 1,400 DU | 14,000 | 8% | 0.2 0.8 | 224 | 896 | 1,120 | 10% | 0.7 0.3 | 980 | 420 | 1,400 |
| Multi-Family (< 20 du/ac) | 8 /DU | 2,240 DU | 17,920 | 8% | 0.2 0.8 | 287 | 1,147 | 1,434 | 10% | 0.7 0.3 | 1254 | 538 | 1,792 |
| Multi-Family (>20 du/ac) | 6 /DU | 2,240 DU | 13,440 | 8% | 0.2 0.8 | 215 | 860 | 1,075 | 9% | 0.7 0.3 | 847 | 363 | 1,210 |
| Community Shopping Cnt | 70 /KSF | 190,800 SF | 13,356 | 3% | 0.6 0.4 | 240 | 160 | 400 | 10% | 0.5 0.5 | 668 | 668 | 1,336 |
| Two Elem. Schools (1) | 2.9 /Student | 1,268 Students | 3,677 | 31% | 0.6 0.4 | 684 | 456 | 1,140 | 19% | 0.4 0.6 | 279 | 419 | 698 |
| Developed Park | 50 /Acre | 40 Acres | <u>2,000</u> | 4% | 0.5 0.5 | <u>40</u> | <u>40</u> | <u>80</u> | 8% | 0.5 0.5 | <u>80</u> | <u>80</u> | <u>160</u> |
| Adopted Otay Mesa CPU Driveway Totals | | | 64,393 | | | 1,690 | 3,559 | 5,249 | | | 4,108 | 2,488 | 6,596 |
| <i>Reduction between CPU and Southwest Village</i> | | | <i>-7,143</i> | | | <i>-121</i> | <i>-351</i> | <i>-472</i> | | | <i>-412</i> | <i>-234</i> | <i>-646</i> |

Source: City of San Diego *Trip Generation Manual*, May 2003. DU=Dwelling Unit. KSF=1,000 square feet. (1) Number of students based on estimated student enrollment for an elementary school of similar size per the Long Range Facilities Master Plan for San Ysidro School District 2021.

The regional location of the project site is shown in **Figure 1**. The 30 planning areas that make up Southwest Village are shown in **Figure 2**.

Figure 1: Regional Project Location

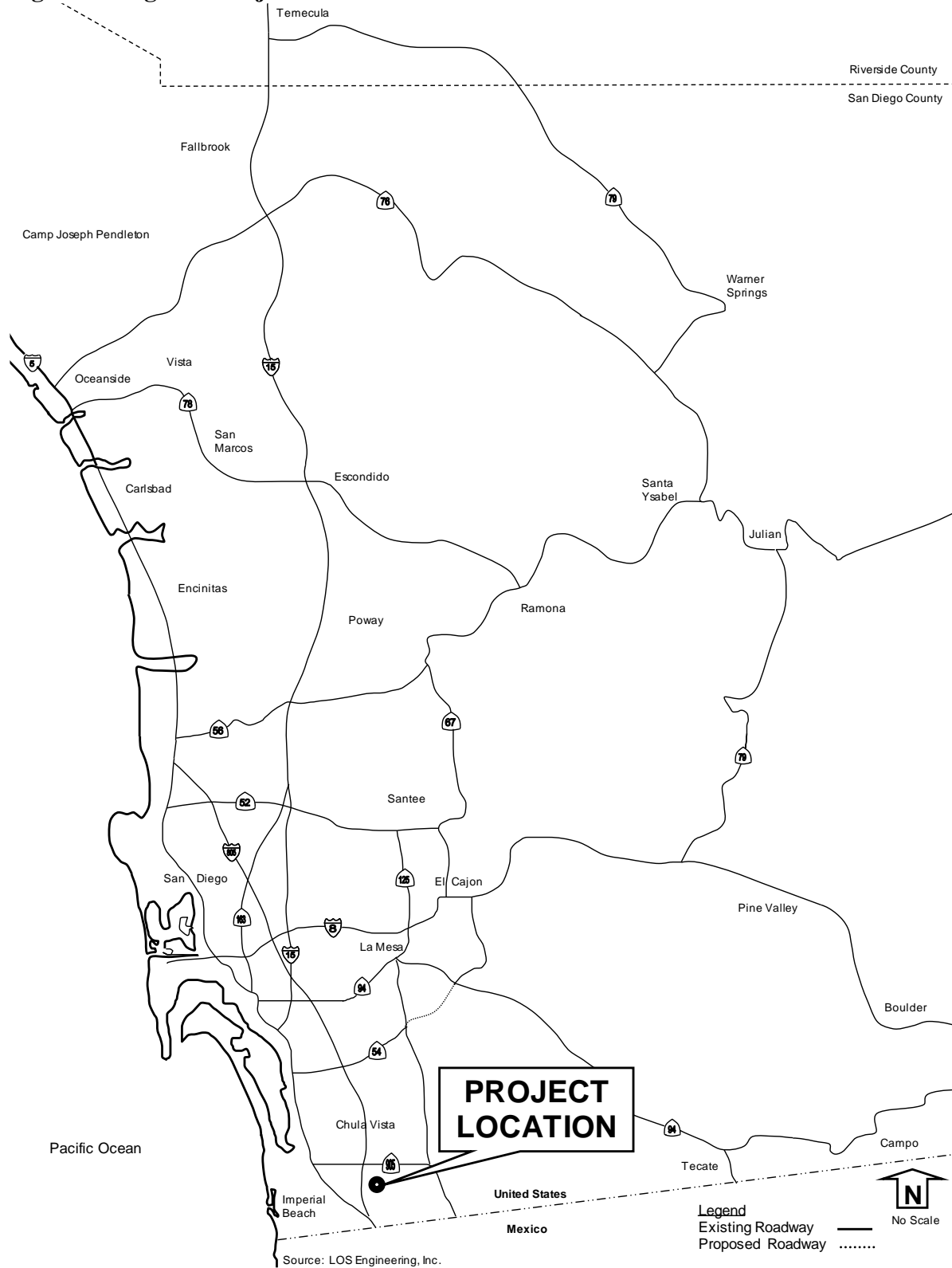
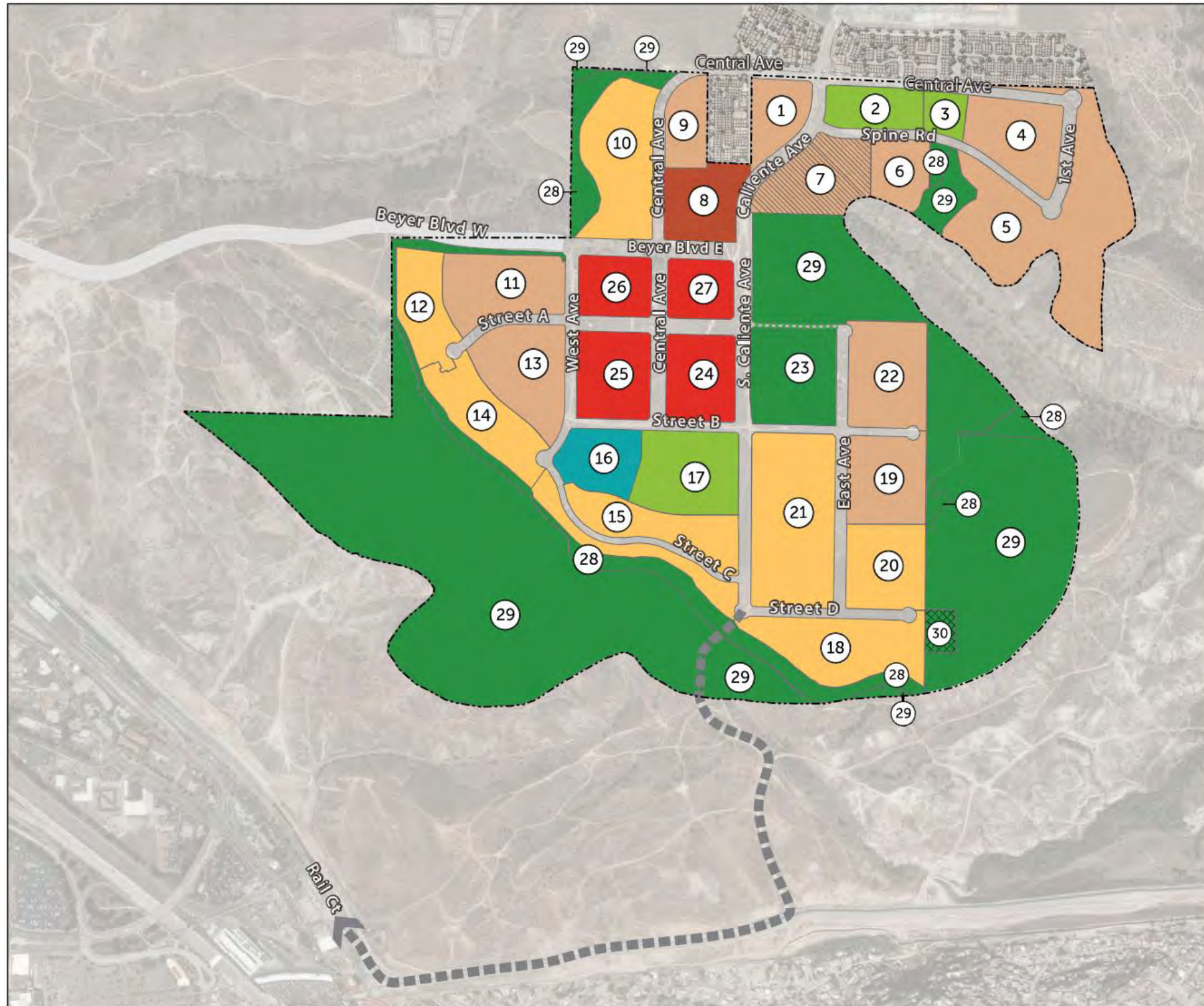


Figure 2: Southwest Village Specific Plan



LEGEND

- Specific Plan Boundary
- # Planning Area
- Red Residential Mixed-Use
30-62 du/ac
- Dark Brown Medium-High
20-44 du/ac
- Light Brown Medium
15-29 du/ac
- Orange Medium-Low
8-22 du/ac
- Light Blue School
- Light Green Parks
- Dark Green Open Space
- Diagonal Lines School Overlay
- Grid Lines Pump Station Overlay
- Grey Dashed Line Secondary Emergency Vehicle Access

N
NOT TO SCALE

Source: Rick Engineering

COMMUNITY PLAN CIRCULATION CHANGES

The Specific Plan is consistent with the Otay Mesa Community Plan Update (OMCPU) transportation assumptions from a trip generation perspective. However, the Specific Plan identifies circulation network changes that require operational analyses to ensure the network still functions at the community level. Two circulation network changes are proposed:

- 1) Caliente Ave downgrade from a 6 Lane Major to a 4 Lane Modified Urban Collector between Central Ave and Beyer Blvd to avoid sensitive habitat, specifically a 1-acre City of San Diego owned Vernal Pool Habitat Conservation Plan 100 percent conserved parcel. The downgrade was supported by City staff during a meeting on 3/11/20 after review of materials provided by the project team. As a 4 Lane Urban Collector, this segment would operate at LOS E under Horizon Year 2062 community buildout conditions. The OMCPU EIR identified this segment as significant and unmitigated under Horizon Year conditions. This impact is considered significant, unavoidable, and consistent with the OMCPU EIR (support materials included in **Attachment A**).
- 2) Beyer Blvd downgrade from a 4 Lane Major to a 4 Lane Modified Urban Collector between Enright Dr and Caliente Ave. From Enright Dr to West Ave, Beyer Blvd will be constructed with a 2 lane cross section to avoid and minimize impacts to sensitive habitat, as requested by California wildlife agencies. From West Ave to Caliente Ave, Beyer Blvd will be constructed as a 4 Lane Urban Major. An arterial analysis supporting the narrower 2 lane cross section with raised median and pedestrian and bicycle facilities and proposed Beyer Blvd alignment are included in **Attachment B**. Beyer Blvd between E. Beyer Blvd/Old Otay Mesa Rd and Enright Dr has not yet been completed to the ultimate San Ysidro Community Plan Update classification of a 4 Lane Collector (excerpt from the San Ysidro Community Plan Update is included in **Attachment C**). Sufficient right of way does not exist on Beyer Blvd between E. Beyer Blvd and Enright Dr to complete this section to the ultimate classification. The right of way constraint is on the north side of Beyer Blvd along the San Ysidro School District parcel. The requirement of a 4 Lane Collector of Beyer Blvd between E. Beyer Blvd/Old Otay Mesa Rd and Enright Dr is forecasted to occur in Phase 4 forecasted at the 3,298th dwelling unit, after accounting for traffic from a second elementary school and 7.6 of park based on the assignment of the SWV Specific Plan residential traffic to Beyer Blvd using a SANDAG Series 13 Select Zone Assignment (**Attachment D**). The Beyer Blvd LOS between E. Beyer Blvd and Enright Dr within San Ysidro and when the existing 2 lanes will be required to be widened to 4 lanes at Phase 4 is shown in **Table 2**.

Table 2: Four Lane Trigger for Beyer Blvd (E. Beyer to Enright) within San Ysidro

| Phase | Single Family | Multi- | Multi- | Dwelling | Running DU Total | ADT by Phase | Aggregate ADT | W. Beyer | Beyer Blvd | E+C+P at 2 lanes | E+C+P at 4 lanes | | | | | | | | |
|---|--|-----------------------|--------------------|-----------------|------------------|--------------|---------------|--|--------------------------|------------------|------------------|--------|--------|-------|--------|-------|-----|------|------|
| | | Famil y < 20 du/ac | Famil y > 20 du/ac | Unit (DU) Total | | | | ADT based on SANDAG SZA 24% distribution | (E Beyer to Enright) ADT | | | LOS E* | LOS E* | | | | | | |
| 1 | Units | 543 | 490 | 282 | 1,315 | 1,315 | | | | V/C | 0.38 | 0.13 | | | | | | | |
| | ADT | 5,430 | 3,920 | 1,692 | | | 11,042 | 11,042 | 2,650 | 1,149 | 3,799 | LOS | A | | | | | | |
| 2 | Units | 615 | 237 | | 852 | 2,167 | | | | | V/C | 0.57 | 0.19 | | | | | | |
| | ADT | 6,150 | 1,896 | | | | 8,046 | 19,088 | 4,581 | 1,149 | 5,730 | LOS | C | | | | | | |
| | Developed Parks | | | | | | | | | | | V/C | 0.59 | 0.20 | | | | | |
| | ADT at 50 ADT/Acre for 10.5 acres | | | | | | | | | | | 525 | 19,613 | 4,707 | 1,149 | 5,856 | LOS | C | A |
| 3 | Elementary School (PA16) | | | | | | | | | | | V/C | 0.63 | 0.21 | | | | | |
| | ADT at 2.9 ADT/Student with 600 students | | | | | | | | | | | 1,740 | 21,353 | 5,125 | 1,149 | 6,274 | LOS | C | A |
| | Units | 819 | | | 819 | 2,986 | | | | | | V/C | 0.78 | 0.26 | | | | | |
| | ADT | 6,552 | | | | | 6,552 | 27,905 | 6,697 | 1,149 | 7,846 | LOS | D | A | | | | | |
| 4 | Developed Parks | | | | | | | | | | | V/C | 0.79 | 0.26 | | | | | |
| | ADT at 50 ADT/Acre for 7.6 acres | | | | | | | | | | | 380 | 28,285 | 6,788 | 1,149 | 7,937 | LOS | D | A |
| | Elementary School (PA7 Overlay) | | | | | | | | | | | | | | | | V/C | 0.84 | 0.28 |
| | ADT at 2.9 ADT/Student with 668 students | | | | | | | | | | | 1,937 | 30,222 | 7,253 | 1,149 | 8,402 | LOS | D | A |
| 5 | Units | 311 | | | 311 | 3,297 | | | | | | V/C | 0.90 | 0.30 | | | | | |
| | ADT | 2,488 | | | | | 2,488 | 32,710 | 7,850 | 1,149 | 8,999 | LOS | D | A | | | | | |
| | Units | 73 | | | 73 | 3,370 | | | | | | V/C | 0.91 | 0.30 | | | | | |
| | ADT | 584 | | | | | 584 | 33,294 | 7,991 | 1,149 | 9,140 | LOS | E | A | | | | | |
| 6 | Units | 306 | | | 306 | 3,676 | | | | | | V/C | 0.97 | 0.32 | | | | | |
| | ADT | 2,448 | | | | | 2,448 | 35,742 | 8,578 | 1,149 | 9,727 | LOS | E | A | | | | | |
| 7 | Units | 267 | | | 267 | 3,943 | | | | | | V/C | 1.02 | 0.34 | | | | | |
| | ADT | 2,136 | | | | | 2,136 | 37,878 | 9,091 | 1,149 | 10,240 | LOS | F | B | | | | | |
| 7 | Units | 1,187 | | | 1,187 | 5,130 | | | | | | V/C | 1.19 | 0.40 | | | | | |
| | ADT | 7,122 | | | | | 7,122 | 45,000 | 10,800 | 1,149 | 11,949 | LOS | F | B | | | | | |
| | Commercial Shopping Center | | | | | | | | | | | V/C | 1.49 | 0.50 | | | | | |
| ADT at 70 ADT/KSF for 175,000 square feet | | | | | | | | | | | 12,250 | 57,250 | 13,740 | 1,149 | 14,889 | LOS | F | C | |
| TOTALS | | Dwelling units: 5,130 | | | ADT: 57,250 | | | | | | | | | | | | | | |

Notes: ADT: Average Daily Trips. E+C: Existing + Cumulative. E+C+P: Existing + Cumulative + Project. KSF: 1,000 Square Feet. V/C: Volume over Capacity. Cap. = Capacity. *LOS E capacity at 10,000 ADT for 2 lanes with no fronting property and 30,000 ADT for 4 lanes with two way left turn lane from TSM Appendix F (included in Attachment E). SZA=Select Zone Assignment. Shading notes when Beyer Blvd (E. Beyer to Enright) needs to be widened to 4 lanes.

PLANNING AREAS AND PHASING

The Southwest Village Specific Plan has 30 planning areas and seven planned phases. However, the phasing is a current estimate that can change due to the unknown timing of when other planning area owners will initiate their own development process. Therefore, future planning area development will be subject to discretionary review for consistency with the current Specific Plan Phasing and will be required to complete the Specific Plan onsite and off-site improvements needed to support their development. The necessary infrastructure and public facilities required for each phase of development shall both be constructed as part of the implementing project or may be necessary to construct upfront of an implementing project consistent with Specific Plan details included in **Attachment E**. The anticipated trip generation by phase is shown in **Table 3**. The planning areas are currently anticipated to be developed over seven phases.

Table 3: Specific Plan Traffic Generation Implementation Table

| Phase & Land Use | Residential Trip Rates | | Non-Residential Trip Rates | | Daily Trips | AM Peak Hour Trips | | | PM Peak Hour Trips | | |
|---|--|-----------|----------------------------|-----------------|---------------|--------------------|-------|--------------|--------------------|-------|--------------|
| | IN | OUT | IN | OUT | | IN | OUT | Total | IN | OUT | Total |
| 1 City SD Trip Rates: Single Family | 10 /DU | | | | | 20% | 80% | 8% | 70% | 30% | 10% |
| | 543 DU | | | | 5,430 | 87 | 347 | 434 | 380 | 163 | 543 |
| | City SD Trip Rates: Multi-Family < 20 du/ac | 8 /DU | | | | 20% | 80% | 8% | 70% | 30% | 10% |
| | 490 DU | | | | 3,920 | 63 | 251 | 314 | 274 | 118 | 392 |
| City SD Trip Rates: Multi-Family > 20 du/ac | 6 /DU | | | | | 20% | 80% | 8% | 70% | 30% | 9% |
| | 282 DU | | | | 1,692 | 27 | 108 | 135 | 106 | 46 | 152 |
| Phase 1 Totals: | 1,315 | DU | | | 11,042 | 177 | 706 | 883 | 761 | 326 | 1,087 |
| 2 City SD Trip Rates: Single Family | 10 /DU | | | | | 20% | 80% | 8% | 70% | 30% | 10% |
| | 615 DU | | | | 6,150 | 98 | 394 | 492 | 431 | 185 | 615 |
| | City SD Trip Rates: Multi-Family < 20 du/ac | 8 /DU | | | | 20% | 80% | 8% | 70% | 30% | 10% |
| | 237 DU | | | | 1,896 | 30 | 122 | 152 | 133 | 57 | 190 |
| | City SD Trip Rates: Elementary School (1) | | | 2.9 /Student | | 60% | 40% | 31% | 40% | 60% | 19% |
| | | | 600 Students | 1,740 | 323 | 216 | 539 | 132 | 199 | 331 | |
| City SD Trip Rates: Developed Park | | | 50 /Acre | | 50% | 50% | 4% | 50% | 50% | 8% | |
| | | | 10.5 Acres | 525 | 11 | 11 | 21 | 21 | 21 | 42 | |
| Phase 2 Totals: | 852 | DU | | | 10,311 | 463 | 742 | 1,204 | 717 | 461 | 1,178 |
| 3 City SD Trip Rates: Multi-Family < 20 du/ac | 8 /DU | | | | | 20% | 80% | 8% | 70% | 30% | 10% |
| | 819 DU | | | | 6,552 | 105 | 419 | 524 | 459 | 197 | 655 |
| Phase 3 Totals: | 819 | DU | | | 6,552 | 105 | 419 | 524 | 459 | 197 | 655 |
| 4 City SD Trip Rates: Developed Park | | | 50 /Acre | | | 50% | 50% | 4% | 50% | 50% | 8% |
| | | | 7.6 Acres | 380 | | 6 | 6 | 14 | 15 | 15 | 30 |
| | City SD Trip Rates: Elementary School (2) | | 2.9 /Student | | | 60% | 40% | 31% | 40% | 60% | 19% |
| | | | 668 Students | 1,937 | | 361 | 240 | 601 | 147 | 221 | 368 |
| City SD Trip Rates: Multi-Family < 20 du/ac | 8 /DU | | | | 20% | 80% | 8% | 70% | 30% | 10% | |
| 384 DU | | | | 3,072 | 49 | 197 | 246 | 215 | 92 | 307 | |
| Phase 4 Totals: | 384 | DU | | | 5,389 | 416 | 443 | 861 | 377 | 328 | 705 |
| 5 City SD Trip Rates: Multi-Family < 20 du/ac | 8 /DU | | | | | 20% | 80% | 8% | 70% | 30% | 10% |
| | 306 DU | | | | 2,448 | 39 | 157 | 196 | 172 | 74 | 245 |
| Phase 5 Totals: | 306 | DU | | | 2,448 | 39 | 157 | 196 | 172 | 74 | 245 |
| 6 City SD Trip Rates: Multi-Family < 20 du/ac | 8 /DU | | | | | 20% | 80% | 8% | 70% | 30% | 10% |
| | 267 DU | | | | 2,136 | 34 | 137 | 171 | 150 | 64 | 214 |
| Phase 6 Totals: | 267 | DU | | | 2,136 | 34 | 137 | 171 | 150 | 64 | 214 |
| 7 City SD Trip Rates: Multi-Family > 20 du/ac | 6 /DU | | | | | 20% | 80% | 8% | 70% | 30% | 9% |
| | 1,187 DU | | | | 7,122 | 114 | 456 | 570 | 449 | 192 | 641 |
| | City SD Trip Rates: Community Shopping Cnt: | | | 70 /KSF | | 60% | 40% | 3% | 50% | 50% | 10% |
| | | | 175 KSF | 12,250 | 221 | 147 | 368 | 613 | 613 | 1,226 | |
| Phase 7 Totals: | 1,187 | DU | | | 19,372 | 335 | 603 | 938 | 1,062 | 805 | 1,867 |
| Overall Target Density/Intensity: | 5,130 | DU | 175 KSF | Schools & Parks | 57,250 | 1,569 | 3,208 | 4,777 | 3,696 | 2,254 | 5,950 |
| Total Remaining | 5,130 | DU | 175 KSF | Schools & Parks | 57,250 | 1,569 | 3,208 | 4,777 | 3,696 | 2,254 | 5,950 |

Source: City of San Diego *Trip Generation Manual*, May 2003. DU: Dwelling Unit, KSF=1,000sf. Comm. = Commercial. (1) In the unlikely event a school is no longer needed on Planning Area 16, the site will default to Medium Density Residential use. Although the contingency for Planning Area 16 would result in approximately 136 additional dwelling units, the maximum dwelling unit cap of 5,130 units would still apply. (2) In the event a school is not needed on Planning Area 7, the site will default to Medium Density Residential Use.

COMMUNITY ACCESS AND ON-SITE VEHICULAR CIRCULATION

Community access and on-site circulation classifications are based on two sources:

- 1) Arterial roadways of Beyer Blvd and Caliente Ave as proposed in the Otay Mesa and San Ysidro Community Plan Updates, and
- 2) Local internal roadway network being proposed as part of the Southwest Village Specific Plan.

The arterial roadways of Beyer Blvd and Caliente Ave were analyzed using volumes from the San Ysidro Community Plan Update (August 2016). The San Ysidro CPU horizon year Average Daily Traffic (ADT) was based on a Series 12 SANDAG traffic model forecast. The Otay Mesa Community Plan Update (March 2014) was not applied because it used an older Series 11 SANDAG traffic model forecast. The San Ysidro horizon year SANDAG volumes (included in **Attachment F**) were applied to the following arterial roadways:

- Beyer Blvd from Enright Dr to Caliente Ave: 28,100 ADT
- Caliente Ave from Airway Rd to Central Ave: 36,900 ADT
- Caliente Ave from Central Ave to Beyer Blvd: 29,200 ADT

The local internal roadways were analyzed based on a manual internal distribution and assignment of individual Planning Areas. On-site roadway traffic distribution and assignment worksheets are included in **Attachment G**.

The following roadway classification were applied to support the forecasted roadway volumes:

- Six Lane Major (striped as 5 lanes)
- Four Lane Urban Major
- Four Lane Urban Collector
- Four Lane Modified Urban Collector
- Two Lane Collector with two-way left turn lane.
- Two Lane Collector
- Sub-Collector

The assignment and proposed roadway classification are shown in **Figure 3** with the segment LOS calculations shown in **Table 3**.

Figure 3: On-Site Roadway Volumes and Proposed Classifications

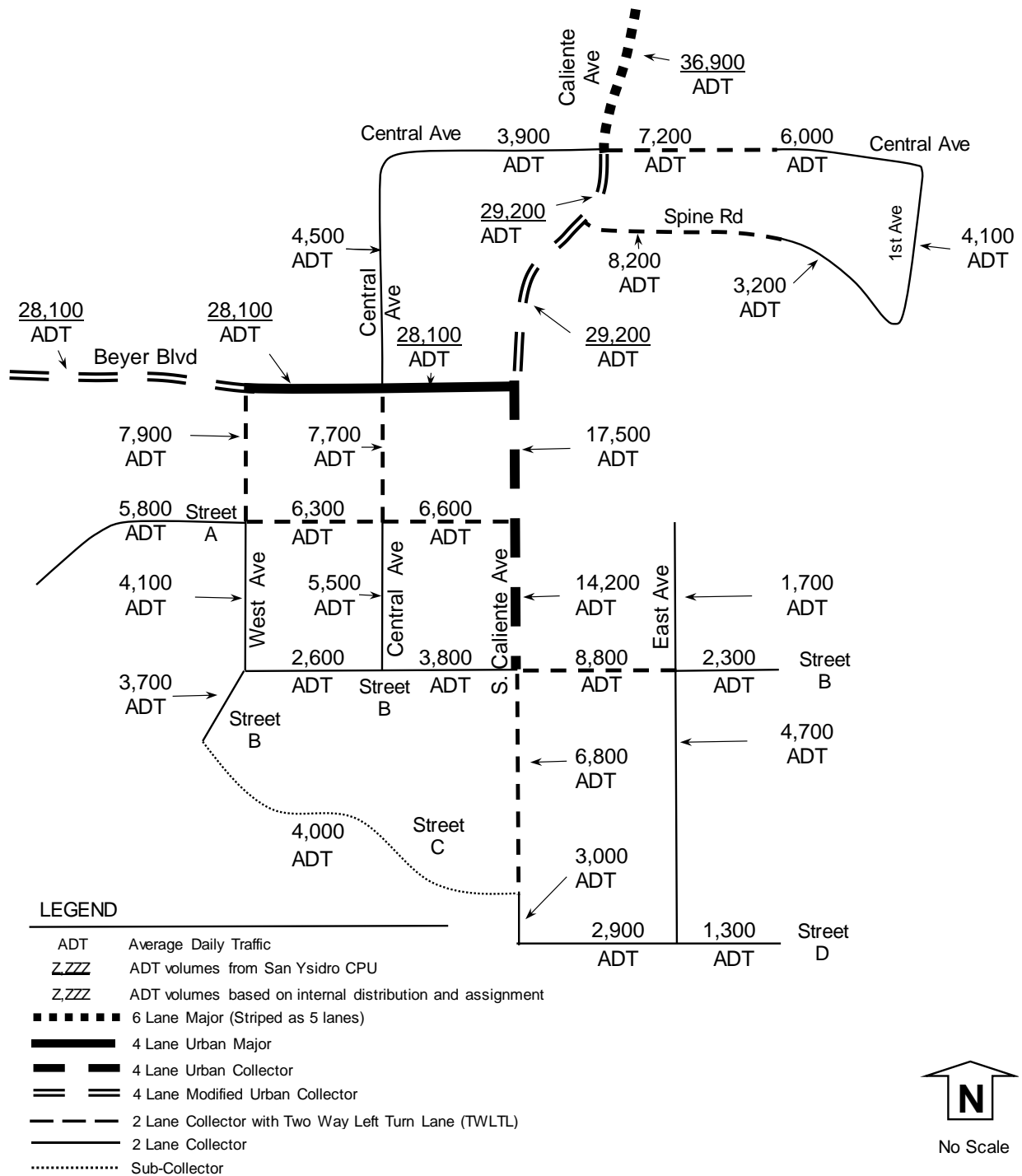


Table 3: On-Site Roadway Horizon Year Volumes and Level of Service

| Segment | Functional Classification | LOS E Capacity | Horizon Year ADT | V/C Ratio | Level of Service |
|--------------------------------|---------------------------------|----------------|------------------|-----------|------------------|
| <u>Beyer Blvd</u> | | | | | |
| Enright Dr to West Ave | 4 Lane Modified Urban Collector | 30,000 | <u>28,100</u> | 0.94 | E |
| West Ave to Central Ave | 4 Lane Urban Major | 40,000 | <u>28,100</u> | 0.70 | C |
| Central Ave to Caliente Ave | 4 Lane Urban Major | 40,000 | <u>28,100</u> | 0.70 | C |
| <u>Caliente Ave</u> | | | | | |
| Airway Rd to Central Ave | 6 Ln Major (Striped as 5 Ln) | 45,000 | <u>36,900</u> | 0.82 | D |
| Central Ave to Spine Rd | 4 Lane Modified Urban Collector | 30,000 | <u>29,200</u> | 0.97 | E |
| Spine Rd to Beyer Blvd | 4 Lane Modified Urban Collector | 30,000 | <u>29,200</u> | 0.97 | E |
| Beyer Blvd to Street A | 4 Lane Urban Collector | 30,000 | 17,500 | 0.58 | C |
| Street A to Street B | 4 Lane Urban Collector | 30,000 | 14,200 | 0.47 | C |
| Street B to Street C | 2 Collector + TWLTL | 15,000 | 6,800 | 0.45 | B |
| Street C to Street D | 2 Lane Collector | 8,000 | 3,000 | 0.38 | B |
| <u>Central Ave</u> | | | | | |
| West of 1st Ave | 2 Lane Collector | 8,000 | 6,000 | 0.75 | D |
| East of Caliente Ave | 2 Collector + TWLTL | 15,000 | 7,200 | 0.48 | C |
| West of Caliente Ave | 2 Lane Collector | 8,000 | 3,900 | 0.49 | C |
| North of Beyer Blvd | 2 Lane Collector | 8,000 | 4,500 | 0.56 | C |
| Beyer Blvd to Street A | 2 Collector + TWLTL | 15,000 | 7,700 | 0.51 | C |
| Street A to Street B | 2 Lane Collector | 8,000 | 5,500 | 0.69 | D |
| <u>East Ave</u> | | | | | |
| Street A to Street B | 2 Lane Collector | 8,000 | 1,700 | 0.21 | A |
| Street B to Street D | 2 Lane Collector | 8,000 | 4,700 | 0.59 | C |
| <u>Spine Rd</u> | | | | | |
| West Half | 2 Collector + TWLTL | 15,000 | 8,200 | 0.55 | C |
| East Half | 2 Lane Collector | 8,000 | 3,200 | 0.40 | B |
| <u>Street A</u> | | | | | |
| West of West Ave | 2 Lane Collector | 8,000 | 5,800 | 0.73 | D |
| West Ave to Central Ave | 2 Collector + TWLTL | 15,000 | 6,300 | 0.42 | B |
| Central Ave to Caliente Ave | 2 Collector + TWLTL | 15,000 | 6,600 | 0.44 | B |
| <u>Street B</u> | | | | | |
| Street C to West Ave | 2 Lane Collector | 8,000 | 3,700 | 0.46 | C |
| West Ave to Central Ave | 2 Lane Collector | 8,000 | 2,600 | 0.33 | B |
| Central Ave to S. Caliente Ave | 2 Lane Collector | 8,000 | 3,800 | 0.48 | C |
| S. Caliente Ave to East Ave | 2 Collector + TWLTL | 15,000 | 8,800 | 0.59 | C |
| East of East Ave | 2 Lane Collector | 8,000 | 2,300 | 0.29 | A |
| <u>Street C</u> | | | | | |
| West Ave to S. Caliente Ave | Sub-Collector | (1) | 4,000 | (1) | (2) |
| <u>Street D</u> | | | | | |
| S. Caliente Ave to East Ave | 2 Lane Collector | 8,000 | 2,900 | 0.36 | B |
| East of East Ave | 2 Lane Collector | 8,000 | 1,300 | 0.16 | A |
| <u>West Ave</u> | | | | | |
| Beyer Blvd to Street A | 2 Collector + TWLTL | 15,000 | 7,900 | 0.53 | C |
| Street A to Street B | 2 Lane Collector | 8,000 | 4,100 | 0.51 | C |
| <u>1st Ave</u> | | | | | |
| Central Ave to Spine Rd | 2 Lane Collector | 8,000 | 4,100 | 0.51 | C |

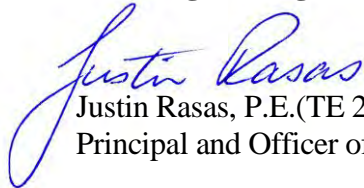
TWLTL: Two Way Left Turn Lane. BOLD indicates unacceptable LOS, which is due to environmental constraints that requires a reduced classification with a lower minimum curve radius to avoid sensitive habitat. Underlined ADT obtained from San Ysidro Community Plan Update SANDAG model. Remaining ADTs from internal distribution and assignments included in the Appendix. V/C: Volume to Capacity. (1) Sub-Collector LOS C threshold = 2,200 ADT. (2) Under capacity.

CONCLUSION

The Southwest Village Specific Plan provides a comprehensive policy framework intended to guide future development in Southwest Village, consistent with the City of San Diego - Otay Mesa Community Plan and City of Villages Strategy. The Specific Plan encompasses approximately 490 acres, will allow up to 5,130 attached and detached residences, and will facilitate creation of a new village anchored by up to 175,000 square feet of commercial and retail uses in a mixed-use Village Core. The timing along with the final number of homes and commercial space is unknown at this time; therefore, each Vesting Tentative Map will be subject to a discretionary review for consistency with the Specific Plan Subsequent EIR and will be required to prepare as needed LMA and VMT analyses.

The timing along with the final number of homes and commercial space is unknown at this time; therefore, each future Specific Plan Vesting Tentative Map will be subject to a discretionary review for consistency with the Specific Plan Subsequent EIR and will be required to prepare LMA and VMT analyses.

Sincerely,
LOS Engineering, Inc.



Justin Rasas, P.E.(TE 2135), PTOE
Principal and Officer of LOS Engineering, Inc.

Job 1733

Attachment A: Caliente Ave Downgrade Details

Attachment B: Beyer Blvd Downgrade Details

Attachment C: Excerpts from the San Ysidro Community Plan Update

Attachment D: SANDAG Series 13 Select Zone Assignment for SWV

Attachment E: Specific Plan Planning Area Phasing Details

Attachment F: San Ysidro Community Plan Update SANDAG Output

Attachment G: On-Site Roadway Trip Assignment Details



Attachment A

Caliente Ave Downgrade Details

Support materials for Caliente Ave downgrade from a 6 Lane Major to a 4 Lane Urban Collector between Central Ave and Beyer Blvd.

This segment of Caliente Ave can only be designed to a 4 Lane Urban Collector (with a minimum curve radius of 470 ft with 2% superelevation and design speed of 35 MPH) to avoid sensitive habitat and to be able to align with the intersection of Caliente Ave/Central Ave. Therefore, a downgrade is being proposed as part of the Southwest Village Specific Plan. A graphic of the alignment is shown on the next page.

A community buildout horizon year volume of 29,200 ADT for Caliente Ave between Central Ave and Beyer Blvd was obtained from the San Ysidro CPU EIR (SANDAG traffic model output included within the next few pages).

As a 4 Lane Urban Collector, this segment is calculated to operate at LOS E shown in **Table 1**.

Table 1: Caliente Ave Downgrade LOS

| Segment | Classification & LOS E Capacity | Horizon Year ADT | V/C Ratio & LOS | CPU EIR Overrides |
|--|--------------------------------------|------------------|-----------------|-------------------|
| Caliente Ave (Central Ave to Beyer Blvd) | 4 Lane Urban Collector 30,000 ADT | 29,200 | 0.97 LOS E | Yes |

The Otay Mesa CPU EIR identifies this segment as significant and unmitigated under community buildout Horizon Year conditions. This impact is considered significant, unavoidable, and consistent with the OM CPU EIR. Historical correspondence and excerpts from the OMCPU EIR are included on the next few pages.

SOUTHWEST VILLAGE CALIENTE AVENUE ALIGNMENT ALTERNATIVE 2 -

ROADWAY ALIGNMENT AS A 4 LANE URBAN COLLECTOR

DESIGN SPEED = 35 MPH W/ 2% SUPERELEVATION

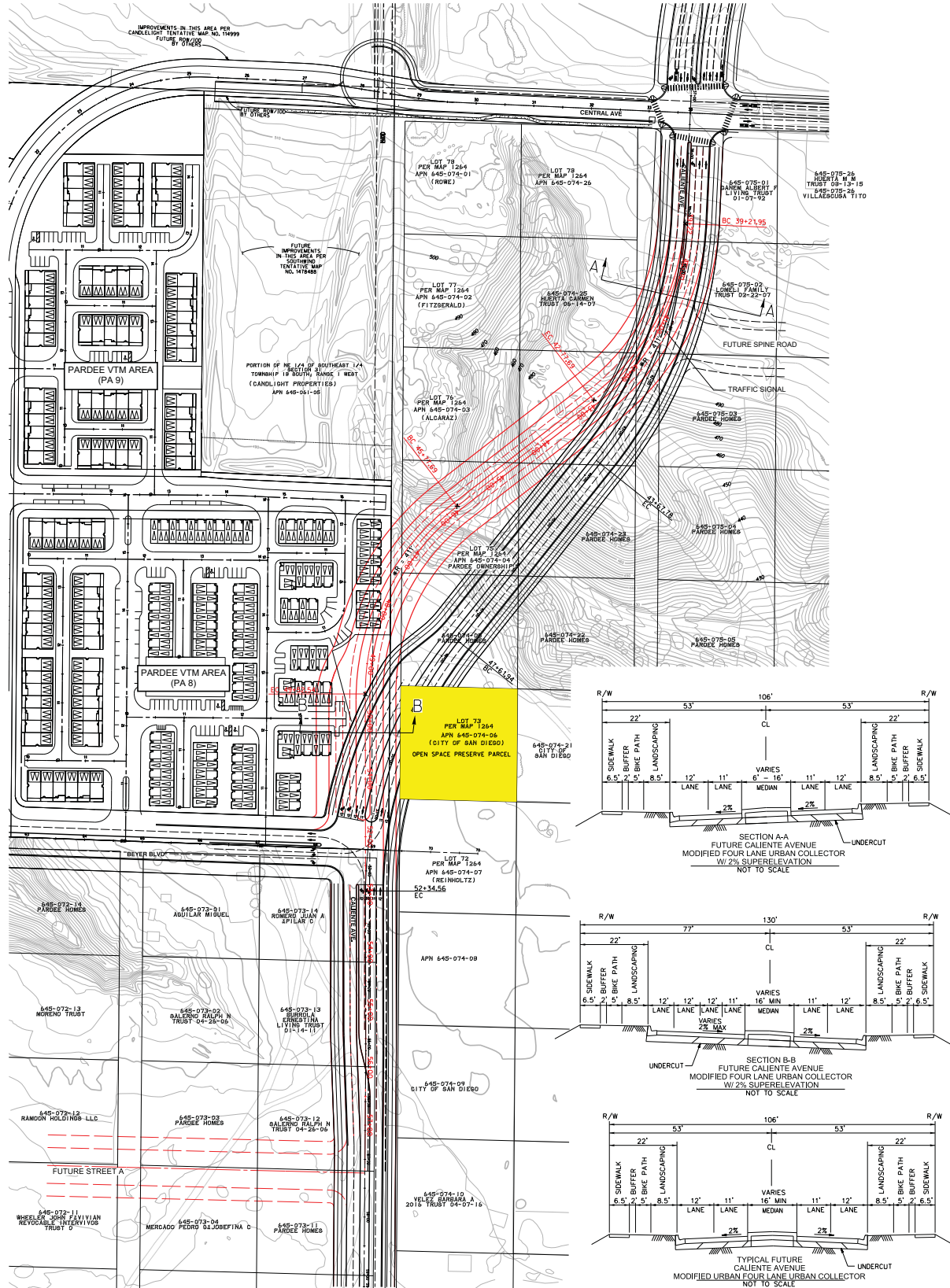


EXHIBIT 2

CLIENTE AVE. DESIGN REQUIREMENTS
 DESIGN SPEED - 35 mph
 MAXIMUM GRADE - 8%
 MINIMUM CURVE RADIUS:
 610' WITH 2% CROWN CROSS SECTION
 * PER CALTRANS DESIGN MANUAL FIGURE 202.2
 MINIMUM RADIUS WITH 2% SUPERELEVATION
 IS 411 FEET.

SANDAG Series 12 2035 Revenue Constrained 2011 RTP Highway Network Forecasted Daily Volumes

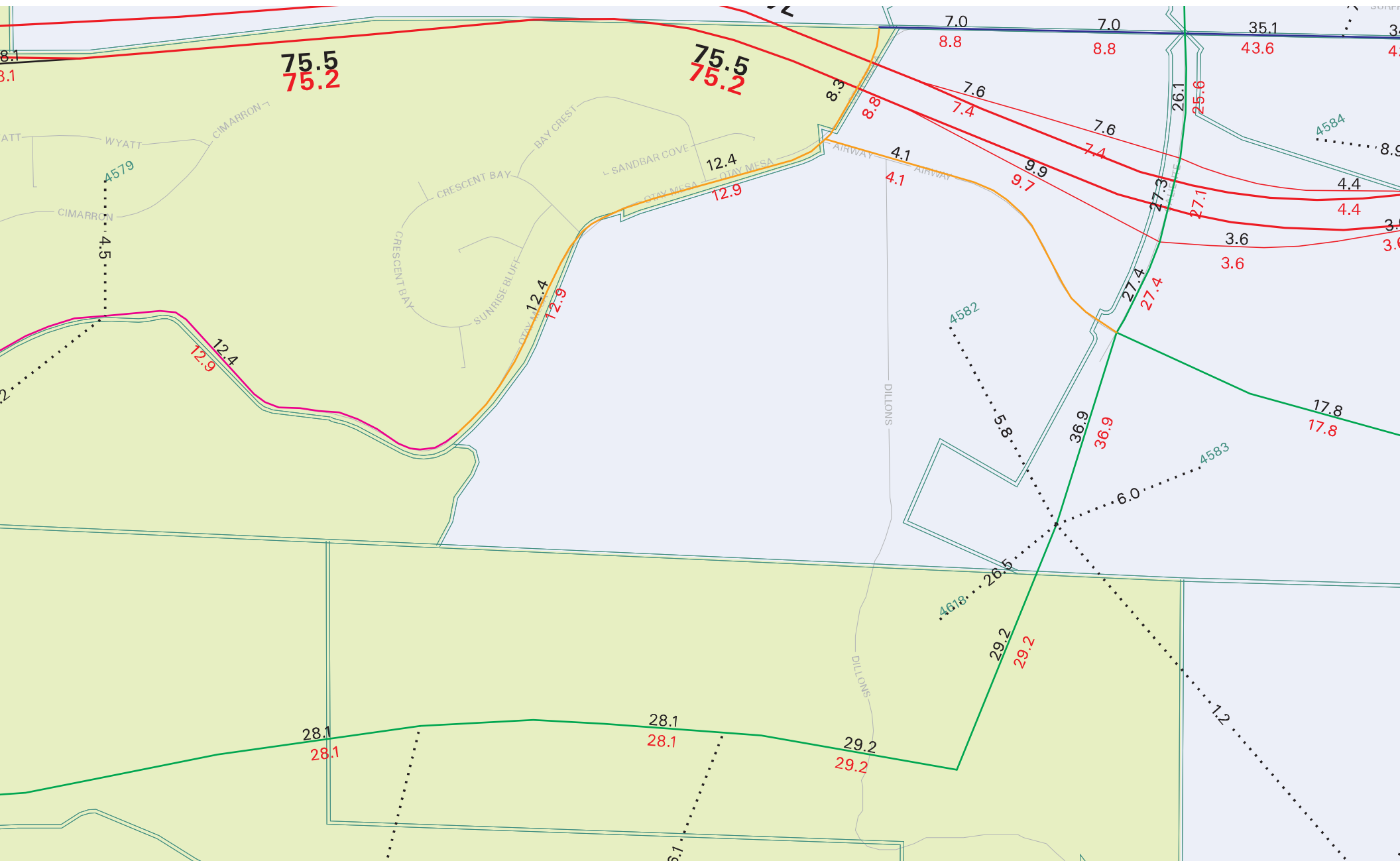
SAN YSIDRO

Model Rerun 05/14/14
San Ysidro CPU
2035 Scenario D - Proposed LU 2, Hybrid Network

Forecasted Volumes:

- # Adjusted Volume
- # Unadjusted Volume
- # Traffic Analysis Zone





From Brooke Peterson **Date** 5/8/2020, 10:52:18 AM
To Shannon Baer
Cc
Subject FW: Caliente/Beyer Follow Up


From: Brooke Peterson
Sent: Thursday, May 7, 2020 3:14 PM
To: Ghossain, George <GGhossain@sandiego.gov>
Subject: Caliente/Beyer Follow Up

George,

I wanted to follow up on our discussion yesterday on two items.

First, thank you again for all your effort and coordination with City staff and Planning particularly, to confirm an agreed upon design for the realignment and downgrade of Caliente. Your willingness to work with us and City staff to find a solution was excellent and much appreciated. Based on your and Planning's concurrence with Alternative 3, we will proceed with redesign of the VTM and specific plan land use plan based on the down-grade of Caliente from the 6-land Urban Major identified in the Otay Mesa Community Plan to a 4-land Urban Collector with the Alternative 3 alignment and cross-section design.

Second, regarding your request for us to revise our design for Beyer Blvd. to accommodate a Class II bikeway in addition to our Class IV, I would appreciate asking yet again for some of your time to discuss. I recognize that we are working together to compromise from both the City and applicant side. I understand the political priorities and the focus and intent of the community plan – and the need to adhere and implement that intent. Understanding that however, I wanted to give you a more detailed description of the constraints I referred to and the implications of adding to the right-of-way (below) and then discuss when you are able.

- Our ROW is 90-ft. in our Beyer Blvd West of the project boundary and 106-ft. within the project boundary. Adding the Class II would add an additional 16-ft to the ROW.
- There is significant topography so 16 more feet would significantly increase the grading, cut/fill etc.
- Everything along Beyer between the project boundary to the San Ysidro boundary is MHPA, including the County of San Diego Furby Preserve. We have minimized our footprint of Beyer Rd from the very beginning in response to this to minimize MHPA and particularly conservation preserve lands.



MEMORANDUM

DATE September 3, 2020

TO George Ghossain, City of San Diego, Transportation Department

FROM Brooke Peterson, Rick Engineering, Southwest Village Project Manager

SUBJECT Beyer Boulevard and Caliente Avenue Alignment Rationale for Southwest Village

PROJECT NUMBER PTS 614791

This memorandum is intended to document the rationale for the Beyer Boulevard and Caliente Avenue alignments and act as a baseline in which to reference in future coordination related to the transportation network of the Southwest Village. Considering the complexity and magnitude of the Southwest Village project, we believe it is worthwhile to summarize in written-form the methodologies and conclusions that have led to the currently proposed Beyer Blvd and Caliente Ave.

I. Background

The alignments of Beyer Boulevard and Caliente Avenue in the Southwest Village Specific Plan Area (SPA) were first outlined in the Otay Mesa Community Plan Update (OMCPU). These roadways are key to the SPA as they are intended to be the two main points of direct access to the SPA from the surrounding communities to the north and west. The preparation of the Southwest Village Specific Plan prompted the need to engineer and finalize the alignments of Beyer Blvd and Caliente Ave. In doing so, Beyer Blvd and Caliente Ave have been designed and engineered to minimize and address various development constraints which has led to its current design.

The development constraints for Beyer Blvd include:

- Environmental and topographic challenges within Moody Canyon;
- Cut and fill quantity limitations;
- The Furby Preserve 100% Conserved parcel that bisects the Beyer Blvd alignment;
- County Multiple Habitat Conservation Plan (MHPA) designation;
- 90-foot Right-of-Way for Beyer Blvd West;
- The OMCPU designation of a 4-Lane Major Arterial.

The development constraints for Caliente Avenue include:

- The City-owned Vernal Pool Habitat Conservation Plan (VPHCP) 100% Conserved parcel to the east of Caliente Ave;
- The City's request to make the SPA a grid-system;
- Turning and speed limit minimums for the curved alignment of Caliente Ave;
- The OMCPU designation of a 6-Lane Major Arterial.

II. Methodology

The OMCPU designated Beyer Blvd as a 4-Lane Major Arterial and Caliente Ave as a 6-Lane Major Arterial based on anticipated average daily trips (ADT), which was based on anticipated population within the SPA. With the preparation of the Southwest Village Specific Plan, development constraints and land use designations have lowered the number of anticipated residential units, thus lowering future ADT, compared to the OMCPU estimates. LOS Engineering

conducted modeling and analysis on the ADT caused by construction and buildout of the Southwest Village, and concluded that future conditions would result in 7,393 less average daily trips (ADT) than what was assumed in the OMCP. A meeting on March 11, 2020 was held with representatives from City Transportation, Mobility, and Long-Range Planning Departments to discuss and decide on a preferred method of classifying Beyer Blvd and Caliente Ave. The following conclusions were presented to the City on March 11, 2020 which support the preferred classifications of Beyer Blvd as a 4-Lane Urban Major Street and Caliente Ave as a 4-Lane Urban Collector:

- The Otay Mesa Community Plan (OMCP) has industrial land uses with an overall mix of 11% residential and 89% industrial/other. Most of the industrial uses are located in the center and eastern side of the community while residential is mostly in the west with some in the center of the community. The Otay Mesa Southwest Village is unique without industrial uses and in the far Southwest corner of the Community Plan.
- Truck routes/restriction do not appear to exist for Beyer Blvd and Caliente Ave. There are no industrial uses in the Southwest Village, thus there would be no reason for Otay Mesa commercial trips to use Beyer Blvd and Caliente Ave other than for local deliveries. Without the demand or cut-through needs for commercial traffic, Beyer Blvd and Caliente Ave would predominately be for Southwest Village retail and residential traffic, supporting a lower volume than shown in the OMCP.
- Since the OMCP, there have been multiple different projects, Central Village SPA, and the proposed Southwest Village, that have in combination reduced the number of residential units by 2,519 from the OMCP. Similarly, the more recent San Ysidro Community Plan Update (SYCPU) had a traffic model that included the Southwest Village, which included an ADT of 29.2k for Caliente Ave between Central Ave and Beyer Blvd, compared to the 46k ADT used in the OMCP.
- Cut through traffic on Beyer Blvd and Caliente Ave would result in a more circuitous route and more traffic signals than using SR-905 and I-805. Additionally, the cut through route would have the Caliente Ave interchange at SR-905, but no equivalent at the Beyer bridge over I-805. Therefore, a cut-through trip would end up in a San Ysidro neighborhood and not on I-805.

The preferred Caliente Ave alignment discussed at the March 11, 2020 meeting curves around the VPHCP parcel. The new curved alignment requires a speed reduction around the curve, affects the ability of Caliente Ave to be classified as a 4-Lane Urban Major Street. Thus, further justifying the downgrade of Caliente Ave to a 4-Lane Urban Collector.

Beyer Blvd was designed in it's current alignment in order to best replicate the alignment identified in the OMCP, while minimizing adverse effects on resources in the area. The OMCP envisioned Beyer Blvd to be the secondary access road to the SPA, with Caliente Ave being the primary access road. To adequately alleviate vehicle trips on Caliente Ave, Beyer Blvd would need to be a straight shot from the San Ysidro community to the west. Therefore, Beyer Blvd was designed within the slope of Mood Canyon. Although the design of Beyer Blvd requires large quantities of grading and buttressing for the roadway, and bisects the Furby Preserve, the Applicant is working with wildlife agencies to find concurrence on the alignment of Beyer Blvd.

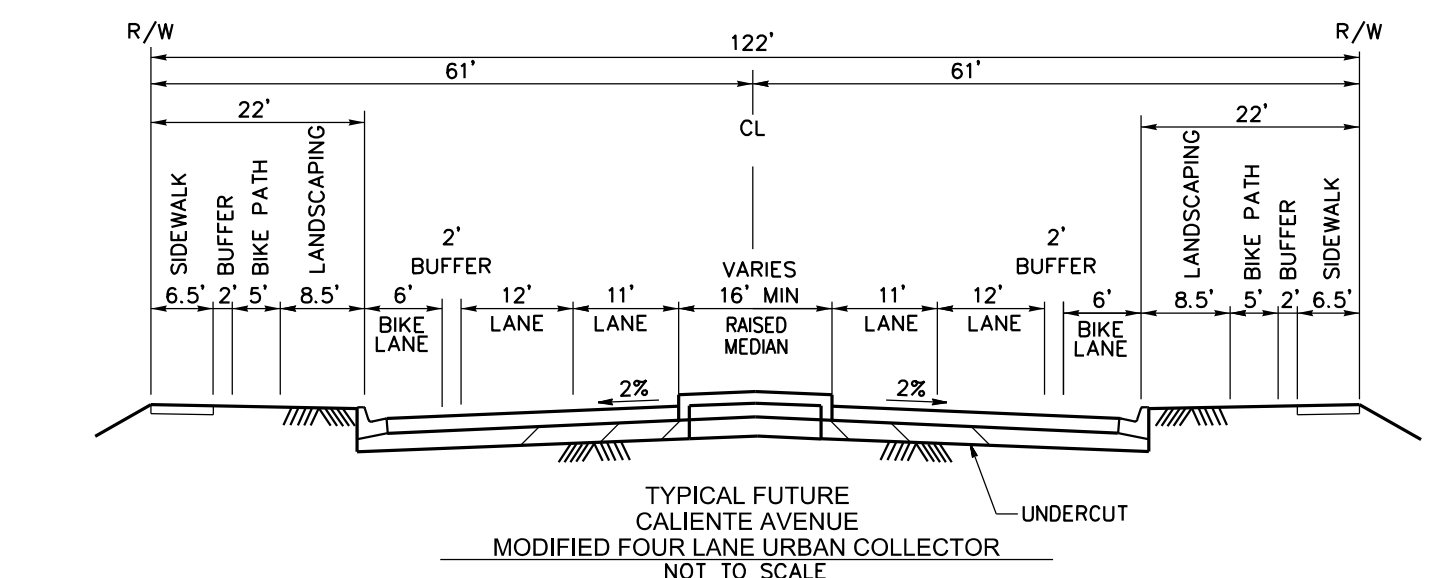
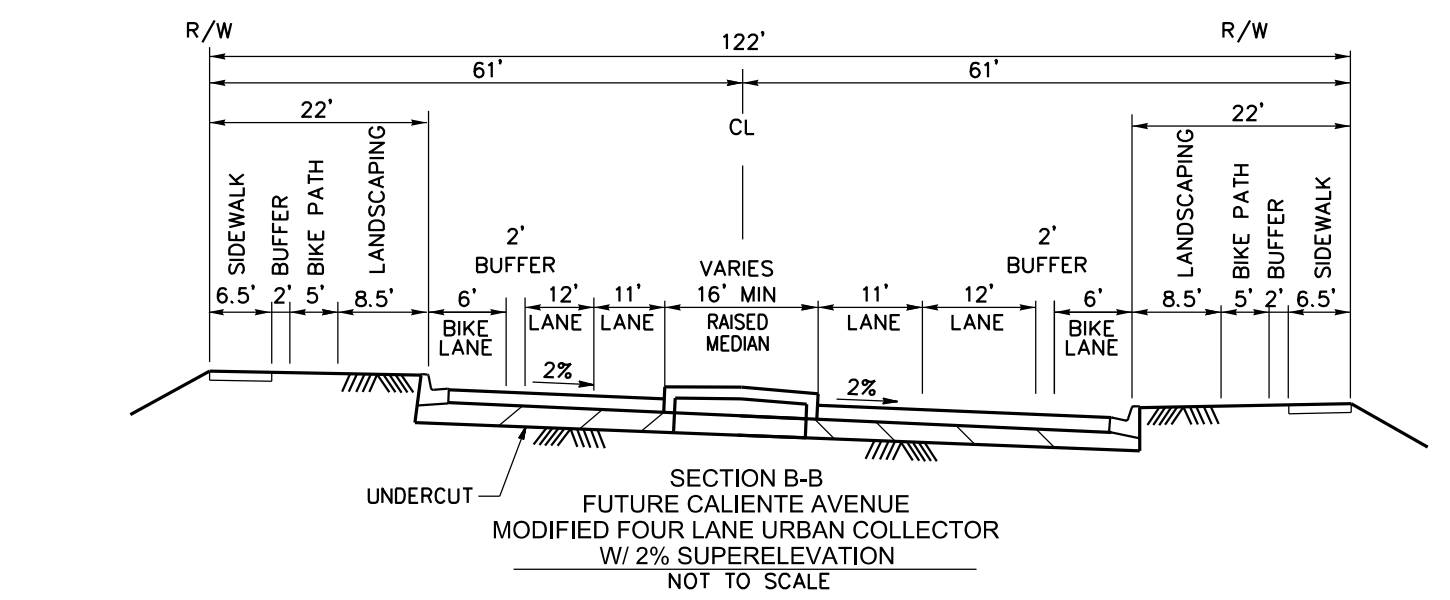
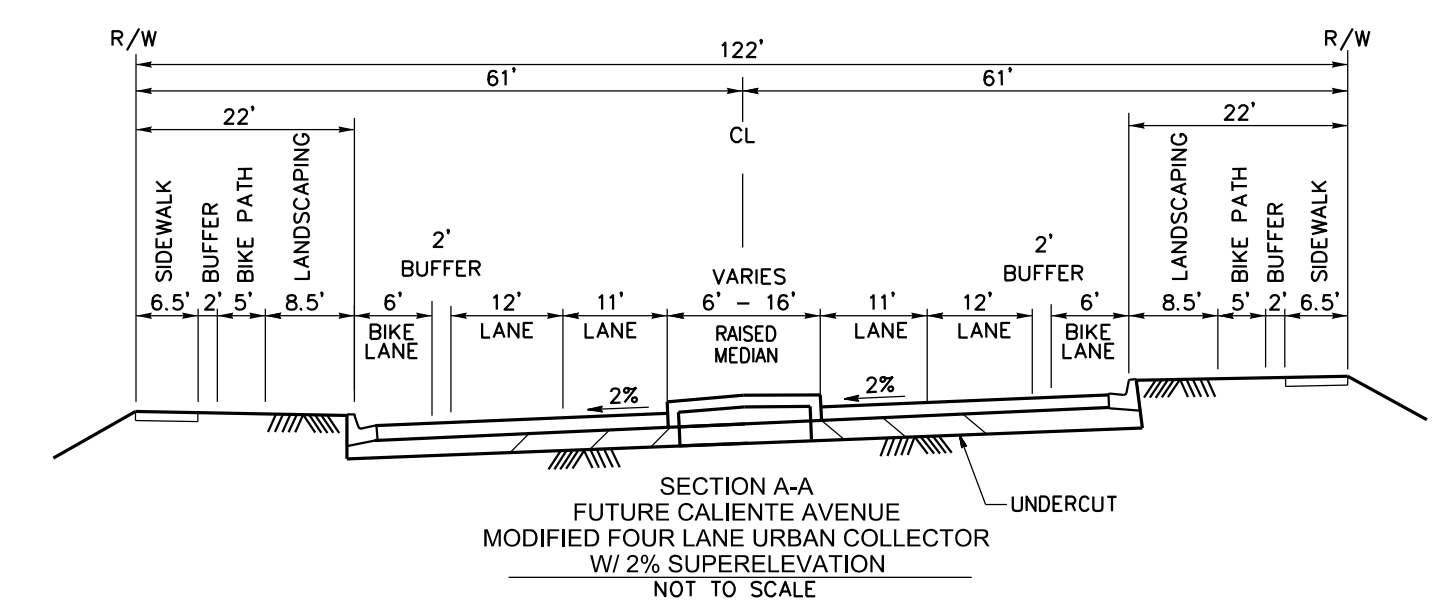
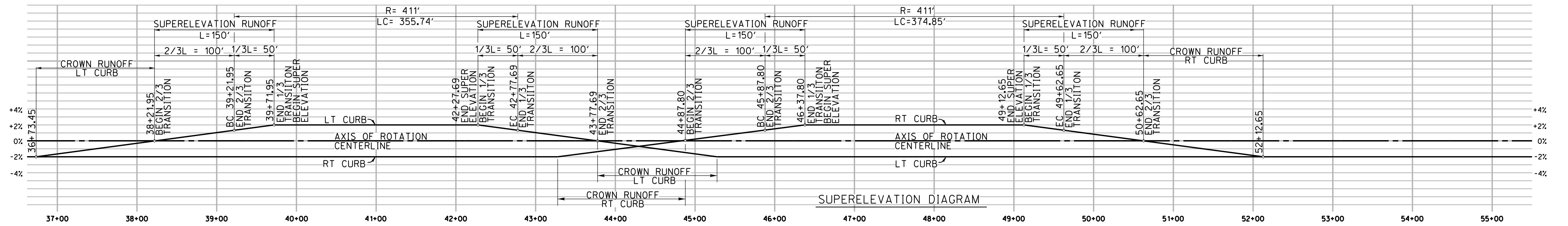
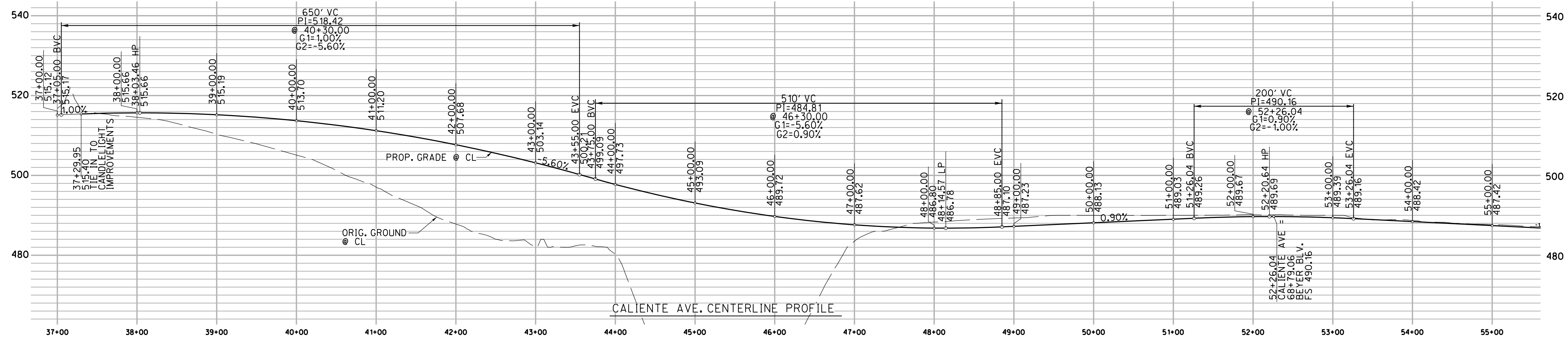
III. Conclusions

In the March 11, 2020 meeting, City staff concurred that a downgrade to Caliente Ave from 4-Lane Major Arterial to a 4-Lane Urban Collector is the preferred method to maintain the grid system south of Central Ave, avoid mobility implications, maintain lot lines to the greatest extent feasible, and avoid impacting the VPHCP parcel adjacent to Caliente Ave. Upon providing concurrence on downgrading Caliente Ave from a 6M to a 4-Lane Urban Collector, the City requested the Applicant redesign Caliente Ave to have on-street Class II bike facilities with a two-foot buffer to facilitate the downgrade and speed limit reduction. This request has been accommodated. In addition, City Long Range staff suggested a traffic circle as a traffic calming measure at the intersection of Central Ave and Caliente Ave. It was discussed that considering the environmental documentation and VTM for a project north of Specific Plan boundary, there would be design and analysis implications with incorporating a traffic circle at that location. Thus, a

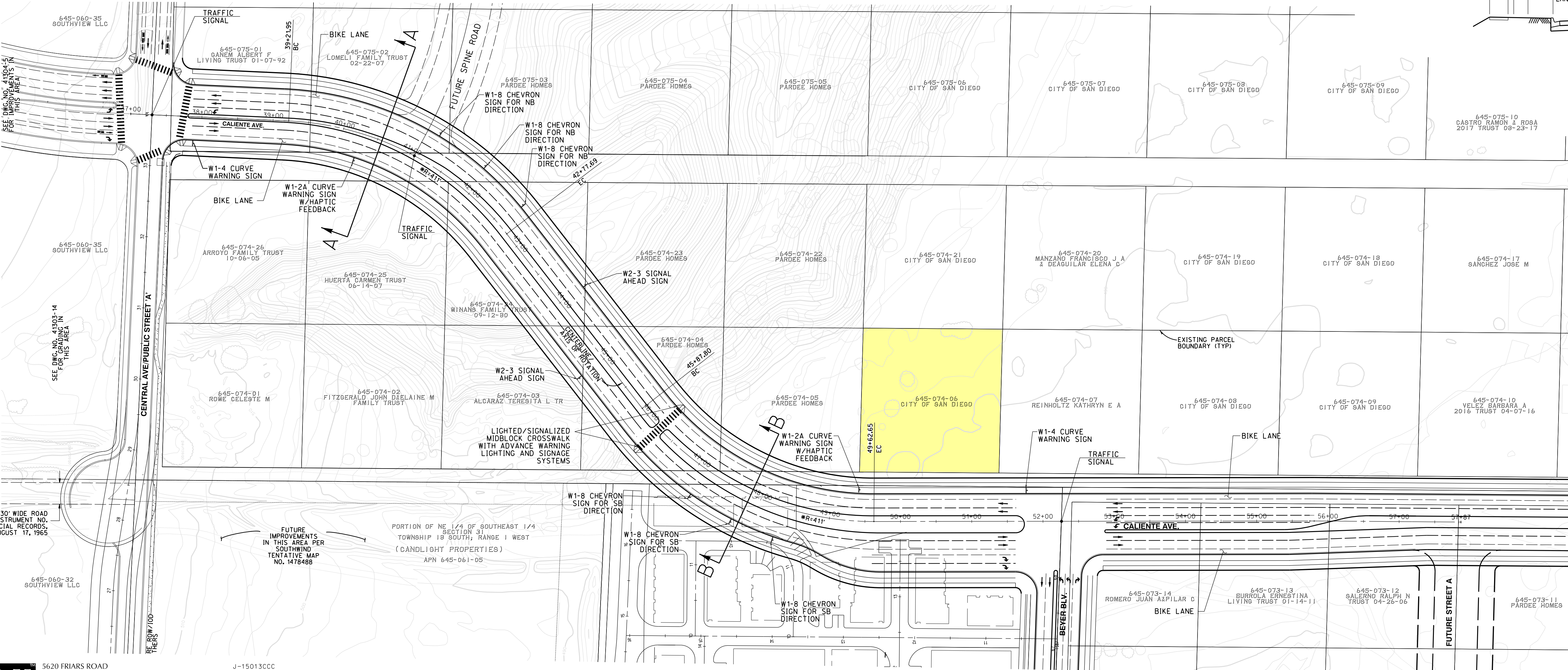
traffic circle at the intersection of Central Ave and Caliente Ave was not carried through in the current designs. See the currently proposed alignment, cross-sections, and elevations of Caliente Ave in Section IV Alignments, Elevations, and Cross-Sections.

After the City's concurrence with the classification of Beyer Blvd as a 4-Lane Urban Collector, the City requested Beyer Blvd to provide on-street Class II bike facilities with a two-foot buffer to facilitate the downgrade and align with the OMCPU. This request has been accommodated in the ROW by reducing the outside travel lane from 12 feet to 11 feet and the landscape strip in the parkway down to 6.5 feet. See the currently proposed alignment, cross-sections, and elevations of Beyer Blvd in Section IV Currently Proposed Cross-Sections.

SOUTHWEST VILLAGE - CALIENTE AVENUE ALTERNATIVE 3 LINE AND GRADE STUDY
ROADWAY ALIGNMENT AS A 4 LANE URBAN COLLECTOR WITH BIKE LANE
DESIGN SPEED=35MPH WITH 2% SUPERELEVATION

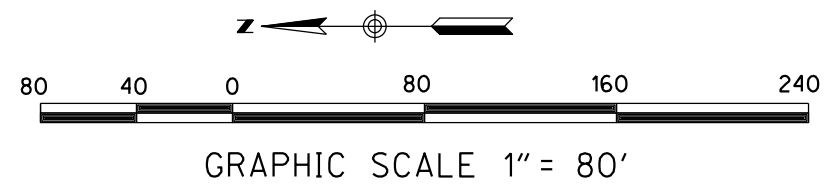


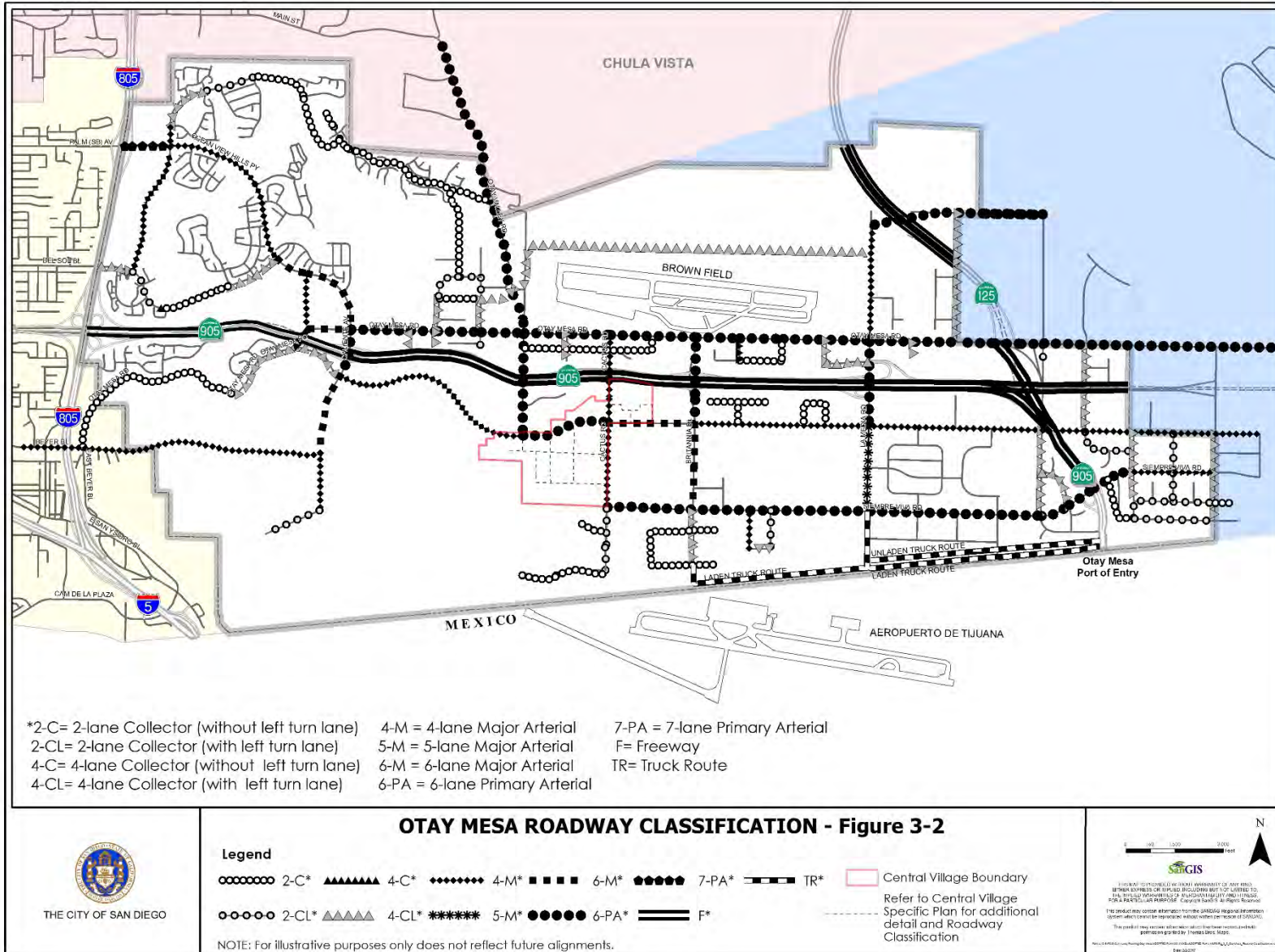
CLIENTE AVE. DESIGN REQUIREMENTS
 DESIGN SPEED - 35 mph
 MAXIMUM GRADE - 7%
 MINIMUM CURVE RADIUS:
 610' WITH 2% STANDARD CROWN CROSS SECTION
 * PER CALTRANS DESIGN MANUAL FIGURE 202.2
 MINIMUM RADIUS WITH 2% SUPERELEVATION
 IS 411 FEET.

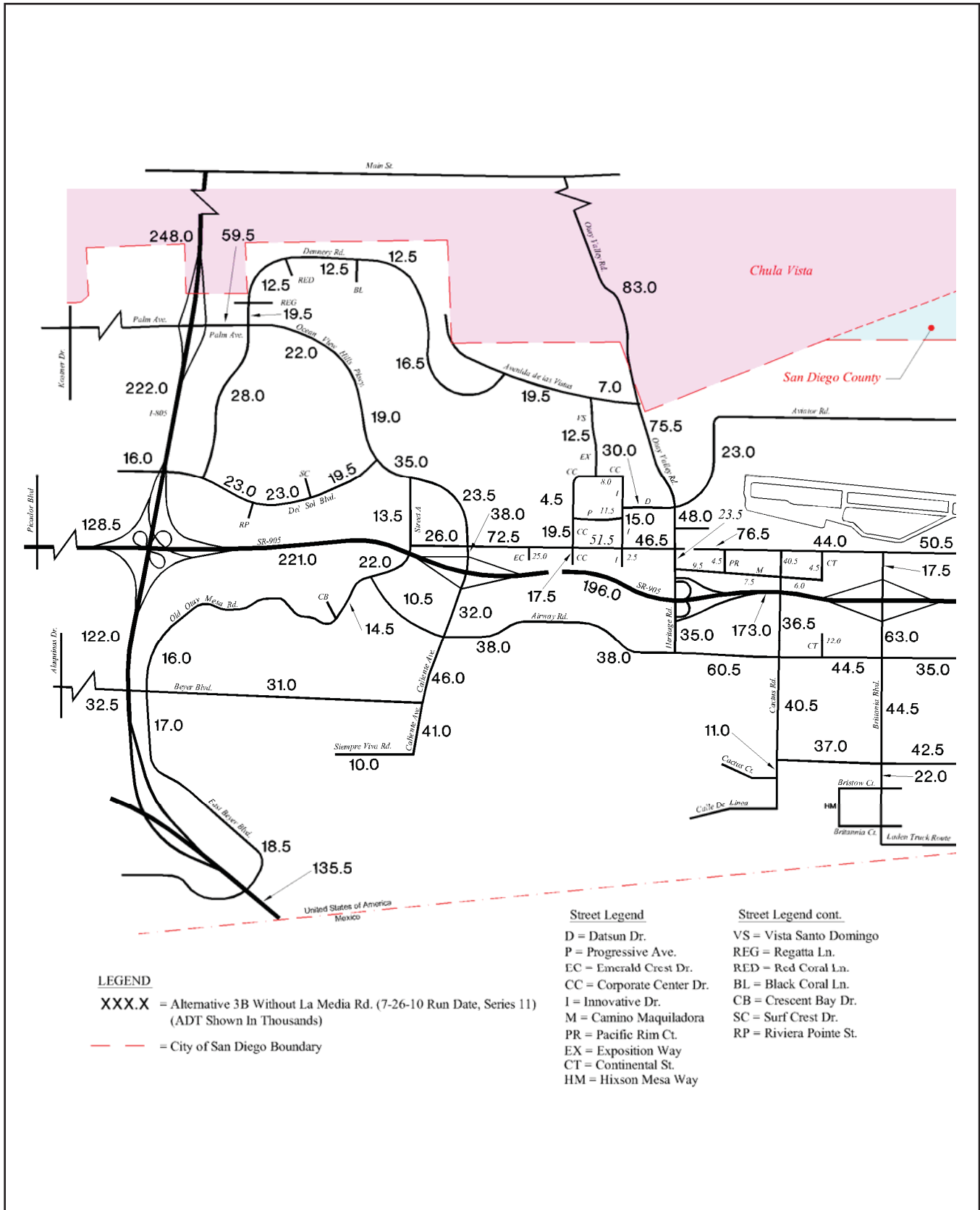


SIGNAGE LEGEND

- W1-4 CURVE WARNING SIGN
- W1-2A CURVE WARNING WITH HAPTIC FEEDBACK
- W1-8 CHEVRON SIGN
- W2-3 SIGNAL AHEAD SIGN







Not to Scale

FIGURE 5.12-3a
Horizon Year Plus CPU Condition Roadway Segment Volumes (West)

**TABLE 5.12-5
CPU HORIZON YEAR ROADWAY SEGMENT LEVEL OF SERVICE
(continued)**

| Street | Segment | Horizon Year | | | | | Horizon Year with CPU | | | Sig? |
|---------------------------------|---|--------------------|------------------------|-------------|------|-----|-----------------------|---------|---------|------|
| | | Class ¹ | LOS E ADT ² | Segment ADT | V/C | LOS | New Class | New V/C | New LOS | |
| Palm Ave. | I-805 to Dennery Rd. | 7-PA | 65,000 | 59,500 | 0.92 | D | - | - | - | N |
| Ocean View Hills Parkway | Dennery Rd. to Del Sol Blvd. | 4-M | 40,000 | 22,000 | 0.55 | C | - | - | - | N |
| | Del Sol Blvd. to Street "A" | 6-M | 50,000 | 35,000 | 0.70 | C | - | - | - | N |
| | Street "A" to Otay Mesa Rd. | 6-M | 50,000 | 23,500 | 0.42 | B | - | - | - | N |
| Caliente Avenue | Otay Mesa Rd. to SR-905 | 6-M | 50,000 | 38,000 | 0.76 | C | 6-PA | 0.63 | C | N |
| | SR-905 to Airway Rd. | 6-M | 50,000 | 32,000 | 0.64 | C | 6-PA | 0.53 | B | N |
| | Airway Rd. to Beyer Blvd. | 4-M | 40,000 | 46,000 | 1.15 | F | 6-M | 0.92 | E | Y |
| | Beyer Blvd. to Siempre Viva Rd. | 4-M | 40,000 | 41,000 | 1.03 | F | - | - | - | Y |
| Beyer Boulevard | Alaquinias Dr. to Old Otay Mesa Rd. Old Otay Mesa Rd. to Caliente Ave. ³ | 4-M | 40,000 | 32,500 | 0.81 | D | - | - | - | N |
| | | 4-M | 40,000 | 31,000 | 0.78 | D | - | - | - | N |
| Heritage Road/ Otay Valley Road | Main St. to Avenida de Las Vistas** | 6-PA | 60,000 | 83,000 | 1.38 | F | - | - | - | Y |
| | Avenida De Las Vistas to Datsun St. | 6-M | 50,000 | 75,500 | 1.51 | F | 6-PA | 1.26 | F | Y |
| | Datsun St. to Otay Mesa Rd. | 6-M | 50,000 | 48,000 | 0.96 | E | 6-PA | 0.80 | C | N |
| | Otay Mesa Rd. to SR-905 | 6-M | 50,000 | 23,500 | 0.47 | B | 6-PA | 0.39 | A | N |
| | SR-905 to Airway Rd. | 6-M | 50,000 | 35,000 | 0.70 | C | 6-PA | 0.58 | B | N |
| Cactus Road | Otay Mesa Rd. to Airway Rd. | 4-CL | 30,000 | 40,500 | 1.35 | F | 4-M | 1.01 | F | Y |
| | Airway Rd. to Siempre Viva Rd. | 4-CL | 30,000 | 40,500 | 1.35 | F | 4-M | 1.01 | F | Y |
| | Siempre Viva Rd. to South End | 2-CL | 15,000 | 11,000 | 0.73 | D | - | - | - | N |
| Britannia Boulevard | Otay Mesa Rd. to SR-905 | 4-M | 40,000 | 17,500 | 0.44 | B | 6-PA | 0.29 | A | N |
| | SR-905 to Airway Rd. | 4-M | 40,000 | 63,000 | 1.58 | F | 6-PA | 1.05 | F | Y |
| | Airway Rd. to Siempre Viva Rd. | 4-M | 40,000 | 44,500 | 1.11 | F | 6-M | 0.89 | D | N |
| | Siempre Viva Rd. to South End | 2-C | 8,000 | 22,000 | 2.75 | F | 4-CL | 0.73 | D | N |
| La Media Road | Birch Rd. to Lone Star Rd.** | 6-PA | 60,000 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | Lone Star Rd. to Aviator Rd. | 6-PA | 60,000 | 19,500 | 0.33 | A | 4-M | 0.49 | B | N |
| | Aviator Rd. to Otay Mesa Rd. | 6-PA | 60,000 | 22,500 | 0.38 | A | 4-M | 0.56 | C | N |
| | Otay Mesa Rd. to SR-905 | 6-PA | 60,000 | 37,500 | 0.63 | C | - | - | - | N |
| | SR-905 to Airway Rd. | 6-PA | 60,000 | 64,000 | 1.06 | F | - | - | - | Y |
| | Airway Rd. to Siempre Viva Rd. | 4-M | 40,000 | 33,000 | 0.83 | D | 5-M | 0.73 | C | N |
| Harvest Road | South of Otay Mesa Rd. | 4-M | 40,000 | 8,500 | 0.21 | A | 2-CL | 0.57 | C | N |
| | Airway Rd. to Otay Center Dr. | 4-M | 40,000 | 16,000 | 0.40 | B | 4-CL | 0.53 | C | N |
| | Otay Center Dr. to Siempre Viva Rd. | 4-M | 40,000 | 10,000 | 0.25 | A | 4-CL | 0.33 | A | N |
| Enrico Fermi Drive | SR-11 to Airway Rd.* | 4-M | 40,000 | 15,500 | 0.62 | B | - | - | - | N |
| | Airway Rd. to Siempre Viva Rd. | 4-M | 40,000 | 8,000 | 0.20 | A | 4-CL | 0.27 | A | N |
| | Siempre Viva Rd. to Via de la Amistad | 4-M | 40,000 | 10,500 | 0.26 | A | 4-CL | 0.35 | B | N |

However, due to the uncertainty associated with implementing freeway ramp improvements, and uncertainty related to implementation of TDM measures, the freeway ramp impacts associated with the CPU would remain significant and unavoidable unmitigated at the program-level.

5.12.3.4 Significance After Mitigation

a. Roadway Segments

Implementation of roadway segment improvements proposed as part of the CPU (see Section 5.12.3.1(a) above) would resolve several traffic impacts that would occur under the Horizon Year. However, 24 significant impacts as shown in Table 5.12-5 would remain unavoidable unmitigated and would operate unacceptably in the Horizon Year plus CPU Condition as shown below-;

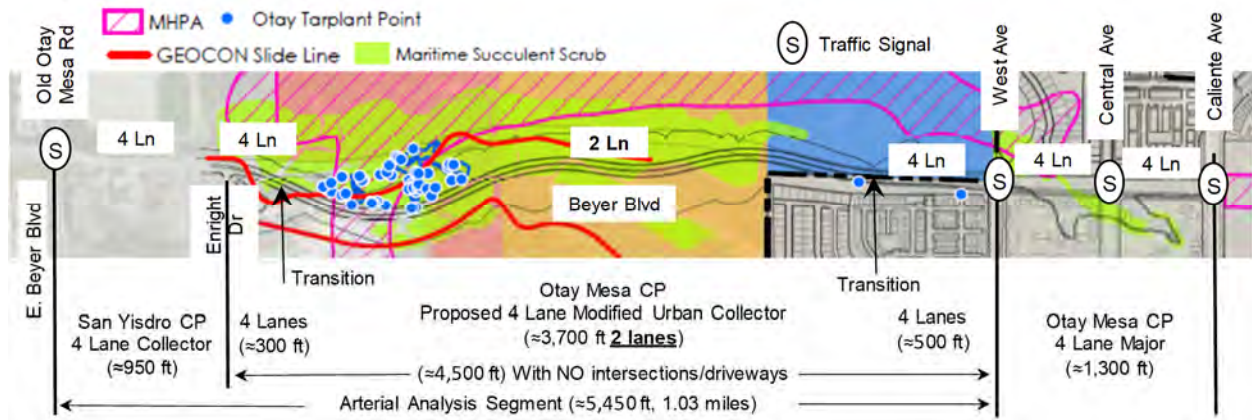
1. Otay Mesa Road, Caliente Ave. to Corporate Center Dr.
2. Otay Mesa Road, Heritage Rd. to Cactus Rd.
3. Airway Road, Caliente Ave. to Heritage Rd.
4. Airway Road, Heritage Rd. to Cactus Rd.
5. Siempre Viva Road, Otay Center Dr. to SR-905
6. Siempre Viva Road, SR-905 to Paseo de las Americas
7. Caliente Avenue, Airway Rd. to Beyer Blvd.
8. Caliente Avenue, Beyer Blvd. to Siempre Viva Rd.
9. Heritage Road/Otay Valley Road, Main St. to Avenida de Las Vistas
10. Heritage Road/Otay Valley Road, Avenida de las Vistas to Datsun St.
11. Cactus Road, Otay Mesa Rd. to Airway Rd.
12. Cactus Road, Airway Rd. to Siempre Viva Rd.
13. Britannia Boulevard, SR-905 to Airway Rd.
14. La Media Road, SR-905 to Airway Rd.
15. Dennery Road, Black Coral Ln. to East End
16. Avenida de las Vistas, Vista Santo Domingo to Dennery Rd.
17. Del Sol Boulevard, Surf Crest Dr. to Riviera Pointe
18. Del Sol Boulevard, Riviera Pointe to Dennery Rd.
19. Old Otay Mesa Road, Crescent Bay Dr. to Beyer Blvd.
20. Camino Maquiladora, Heritage Rd. to Pacific Rim Ct.
21. Camino Maquiladora, Pacific Rim Ct. to Cactus Rd.
22. Progressive Avenue, Corporate Center Dr. to Innovative Dr.
23. Datsun Street, Innovative Dr. to Heritage Rd.
24. Exposition Way/Vista Santo Domingo, Avenida de las Vistas to Corporate Center Dr.

Attachment B

Beyer Blvd Downgrade Details

Beyer Blvd Horizon Year Arterial Analysis (LOS Engineering, Inc.)

Purpose: To find a solution to support a 2-lane cross section across environmentally sensitive lands regulated by a non-City of San Diego jurisdiction. Horizon year arterial analysis from Old Otay Mesa Rd/E. Beyer Blvd to Caliente Ave as shown.



The proposed Beyer Blvd alignment and section with 2 lanes is shown on the next page.

The horizon year intersection volumes for Beyer/E. Beyer/Otay Mesa Rd were obtained from the San Ysidro CPU EIR. This horizon year volumes set is higher over existing volumes by 310% AM and 411% PM. Therefore, this intersection was expanded in Synchro beyond the available right-of-way to reach acceptable LOS with the horizon year volumes.

The San Ysidro CPU EIR did not expand this intersection to accommodate the volumes and listed this intersection as failing with overrides. Following this Arterial Analysis is a Supplemental Analysis that provides the percentage of horizon year volumes that can be accommodated within the existing right-of-way and within the anticipated right-of-way that is typically required for the respective roadway approach classifications.

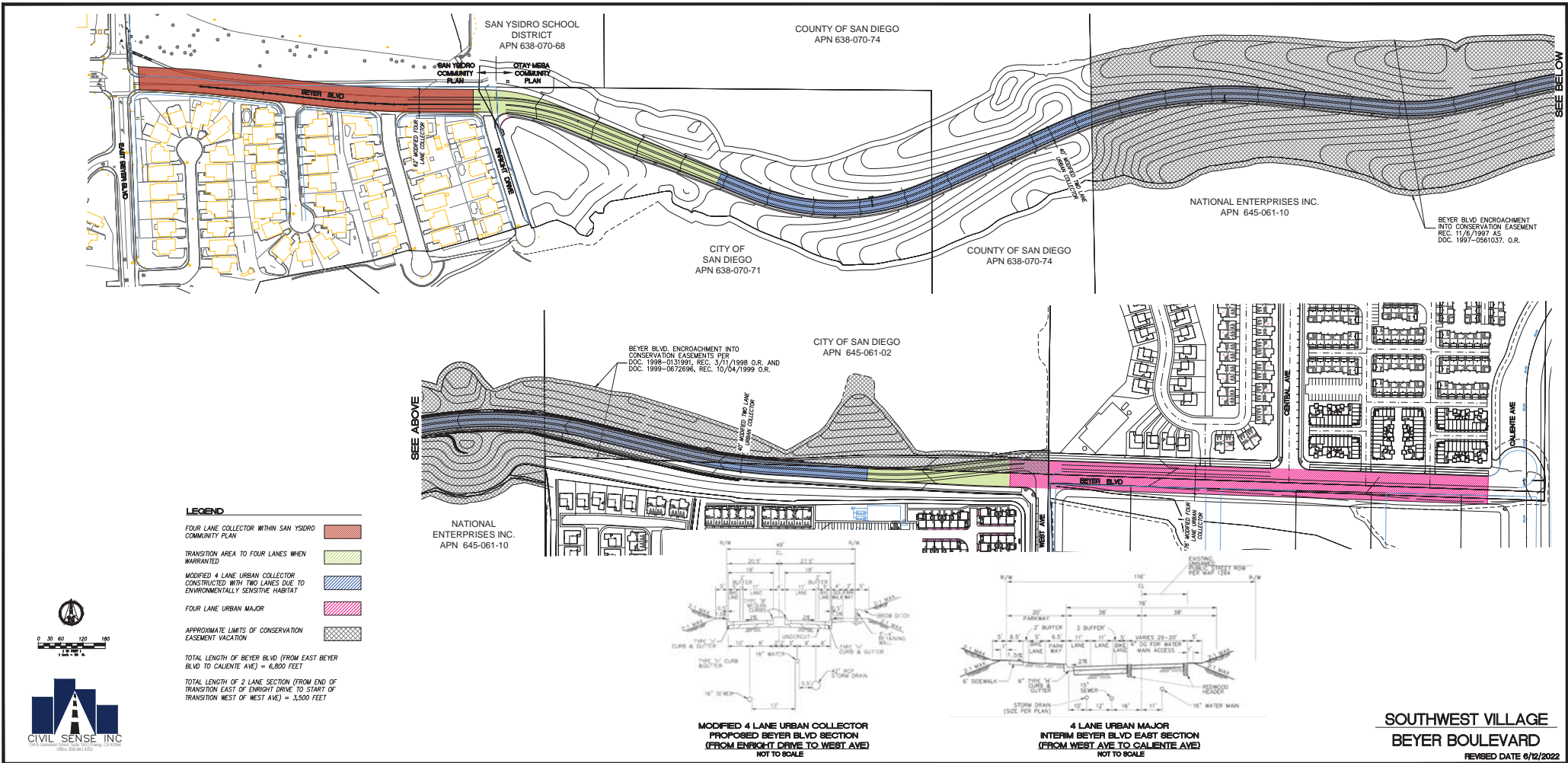
Expanding the intersection at Beyer/E. Beyer/Otay Mesa Rd (west end) and the proposed lane configuration along the three signalized intersection in Southwest Village (east end) to match the proposed classification along with 5,130 homes for Southwest Village (max units), the arterial speeds and the intersections at both ends of this arterial analysis are at acceptable LOS as shown below.

Horizon Year Beyer Blvd Arterial Analysis LOS and Speeds

| Beyer Blvd 35 MPH | 2 Lanes (≈3,700 ft Enright Dr to West Ave) Overall Segment ≈6,750 ft |
|--|---|
| AM EB | LOS A 31.1 MPH (Enright Dr to West Ave) & Overall Segment = LOS D |
| AM WB | LOS C 22.1 MPH (West Ave to Enright Dr) & Overall Segment = LOS C |
| PM EB | LOS B 27.5 MPH (Enright Dr to West Ave) & Overall Segment = LOS D |
| PM WB | LOS B 27.7 MPH (West Ave to Enright Dr) & Overall Segment = LOS C |
| West end Old Otay signal LOS D/D (AM/PM) East end Caliente signal LOS B/B (AM/PM) | |

Design speed of 35 MPH from Street Design Manual for a Four Lane Urban Collector

Attachments



Arterial Level of Service: EB Beyer Blvd

| Cross Street | Arterial Class | Flow Speed | Running Time | Signal Delay | Travel Time (s) | Dist (mi) | Arterial Speed | Arterial LOS |
|--------------|----------------|------------|--------------|--------------|-----------------|-----------|----------------|--------------|
| E Beyer Blvd | III | 35 | 14.6 | 91.7 | 106.3 | 0.11 | 3.7 | F |
| West Ave | III | 35 | 106.1 | 13.2 | 119.3 | 1.03 | 31.1 | A |
| Central Ave | III | 35 | 17.0 | 26.0 | 43.0 | 0.13 | 11.1 | E |
| Caliente Ave | III | 35 | 15.4 | 18.4 | 33.8 | 0.11 | 12.1 | E |
| Total | III | | 153.1 | 149.3 | 302.4 | 1.39 | 16.5 | D |

Arterial Level of Service: WB Beyer Blvd

| Cross Street | Arterial Class | Flow Speed | Running Time | Signal Delay | Travel Time (s) | Dist (mi) | Arterial Speed | Arterial LOS |
|--------------|----------------|------------|--------------|--------------|-----------------|-----------|----------------|--------------|
| Central Ave | III | 35 | 15.4 | 21.7 | 37.1 | 0.11 | 11.1 | E |
| West Ave | III | 35 | 17.0 | 10.7 | 27.7 | 0.13 | 17.3 | D |
| Otay Mesa Rd | III | 35 | 106.1 | 61.9 | 168.0 | 1.03 | 22.1 | C |
| Total | III | | 138.5 | 94.3 | 232.8 | 1.28 | 19.8 | C |

Arterial Level of Service: EB Beyer Blvd

| Cross Street | Arterial Class | Flow Speed | Running Time | Signal Delay | Travel Time (s) | Dist (mi) | Arterial Speed | Arterial LOS |
|--------------|----------------|------------|--------------|--------------|-----------------|-----------|----------------|--------------|
| E Beyer Blvd | III | 35 | 14.6 | 73.9 | 88.5 | 0.11 | 4.4 | F |
| West Ave | III | 35 | 106.1 | 28.9 | 135.0 | 1.03 | 27.5 | B |
| Central Ave | III | 35 | 17.0 | 69.9 | 86.9 | 0.13 | 5.5 | F |
| Caliente Ave | III | 35 | 15.4 | 24.1 | 39.5 | 0.11 | 10.4 | E |
| Total | III | | 153.1 | 196.8 | 349.9 | 1.39 | 14.3 | D |

























Arterial Level of Service: WB Beyer Blvd

| Cross Street | Arterial Class | Flow Speed | Running Time | Signal Delay | Travel Time (s) | Dist (mi) | Arterial Speed | Arterial LOS |
|--------------|----------------|------------|--------------|--------------|-----------------|-----------|----------------|--------------|
| Central Ave | III | 35 | 15.4 | 26.3 | 41.7 | 0.11 | 9.8 | F |
| West Ave | III | 35 | 17.0 | 5.7 | 22.7 | 0.13 | 21.1 | C |
| Otay Mesa Rd | III | 35 | 106.1 | 28.0 | 134.1 | 1.03 | 27.7 | B |
| Total | III | | 138.5 | 60.0 | 198.5 | 1.28 | 23.2 | C |

AM Horizon Year

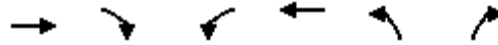
1: E Beyer Blvd/Otay Mesa Rd & Beyer Blvd

HCM 6th Signalized Intersection Summary

| |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations |  |  |  |  |  |  |  |  |  |  |  |  |
| Traffic Volume (veh/h) | 564 | 802 | 340 | 866 | 920 | 218 | 466 | 372 | 808 | 133 | 265 | 508 |
| Future Volume (veh/h) | 564 | 802 | 340 | 866 | 920 | 218 | 466 | 372 | 808 | 133 | 265 | 508 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 0.92 | 1.00 | | 0.96 | 1.00 | | 0.88 | 1.00 | | 0.96 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 613 | 872 | 370 | 941 | 1000 | 237 | 507 | 404 | 878 | 145 | 288 | 280 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 688 | 952 | 1167 | 893 | 1174 | 665 | 595 | 745 | 1234 | 181 | 502 | 934 |
| Arrive On Green | 0.20 | 0.27 | 0.27 | 0.26 | 0.33 | 0.33 | 0.17 | 0.21 | 0.21 | 0.10 | 0.14 | 0.14 |
| Sat Flow, veh/h | 3456 | 3554 | 2562 | 3456 | 3554 | 1525 | 3456 | 3554 | 2446 | 1781 | 3554 | 2678 |
| Grp Volume(v), veh/h | 613 | 872 | 370 | 941 | 1000 | 237 | 507 | 404 | 878 | 145 | 288 | 280 |
| Grp Sat Flow(s),veh/h/ln | 1728 | 1777 | 1281 | 1728 | 1777 | 1525 | 1728 | 1777 | 1223 | 1781 | 1777 | 1339 |
| Q Serve(g_s), s | 21.5 | 29.6 | 11.7 | 32.1 | 32.6 | 13.0 | 17.7 | 12.6 | 26.0 | 9.9 | 9.4 | 9.6 |
| Cycle Q Clear(g_c), s | 21.5 | 29.6 | 11.7 | 32.1 | 32.6 | 13.0 | 17.7 | 12.6 | 26.0 | 9.9 | 9.4 | 9.6 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 688 | 952 | 1167 | 893 | 1174 | 665 | 595 | 745 | 1234 | 181 | 502 | 934 |
| V/C Ratio(X) | 0.89 | 0.92 | 0.32 | 1.05 | 0.85 | 0.36 | 0.85 | 0.54 | 0.71 | 0.80 | 0.57 | 0.30 |
| Avail Cap(c_a), veh/h | 826 | 952 | 1167 | 893 | 1174 | 665 | 718 | 745 | 1234 | 483 | 970 | 1286 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 48.4 | 44.1 | 22.8 | 46.1 | 38.7 | 23.7 | 49.9 | 43.8 | 27.3 | 54.6 | 49.8 | 30.2 |
| Incr Delay (d2), s/veh | 10.5 | 14.8 | 0.7 | 45.3 | 6.1 | 0.3 | 9.7 | 1.2 | 2.3 | 13.1 | 1.8 | 0.3 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 10.0 | 14.5 | 3.5 | 19.2 | 14.9 | 4.6 | 8.2 | 5.5 | 10.4 | 5.0 | 4.2 | 3.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 58.9 | 58.9 | 23.5 | 91.4 | 44.9 | 24.1 | 59.6 | 45.0 | 29.5 | 67.7 | 51.6 | 30.5 |
| LnGrp LOS | E | E | C | F | D | C | E | D | C | E | D | C |
| Approach Vol, veh/h | | 1855 | | | 2178 | | | 1789 | | | 713 | |
| Approach Delay, s/veh | | 51.8 | | | 62.7 | | | 41.5 | | | 46.6 | |
| Approach LOS | | D | | | E | | | D | | | D | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G + Y + Rc), s | 37.0 | 38.2 | 26.3 | 22.8 | 29.2 | 46.0 | 17.8 | 31.2 | | | | |
| Change Period (Y + Rc), s | 4.9 | 4.9 | 4.9 | 5.2 | 4.5 | 4.9 | 5.2 | * 5.2 | | | | |
| Max Green Setting (Gmax), s | 32.1 | 33.3 | 25.8 | 33.9 | 29.7 | 36.1 | 33.7 | * 26 | | | | |
| Max Q Clear Time (g_c + I1), s | 34.1 | 31.6 | 19.7 | 11.6 | 23.5 | 34.6 | 11.9 | 28.0 | | | | |
| Green Ext Time (p_c), s | 0.0 | 1.1 | 1.7 | 4.8 | 1.3 | 1.1 | 0.7 | 0.0 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 6th Ctrl Delay | | | 52.1 | | | | | | | | | |
| HCM 6th LOS | | | D | | | | | | | | | |

AM Horizon Year
2: West Ave & Beyer Blvd

HCM 6th Signalized Intersection Summary























| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
|--------------------------------|------|------|------|------|------|------|
| Lane Configurations | ↑↓ | | ↙ | ↑↑ | ↘ | ↗ |
| Traffic Volume (veh/h) | 275 | 136 | 54 | 773 | 326 | 163 |
| Future Volume (veh/h) | 275 | 136 | 54 | 773 | 326 | 163 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | | 1.00 | 1.00 | | 1.00 | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 299 | 148 | 59 | 840 | 354 | 177 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 584 | 282 | 90 | 1559 | 512 | 456 |
| Arrive On Green | 0.25 | 0.25 | 0.05 | 0.44 | 0.29 | 0.29 |
| Sat Flow, veh/h | 2417 | 1122 | 1781 | 3647 | 1781 | 1585 |
| Grp Volume(v), veh/h | 227 | 220 | 59 | 840 | 354 | 177 |
| Grp Sat Flow(s),veh/h/ln | 1777 | 1668 | 1781 | 1777 | 1781 | 1585 |
| Q Serve(g_s), s | 3.6 | 3.7 | 1.1 | 5.7 | 5.8 | 2.9 |
| Cycle Q Clear(g_c), s | 3.6 | 3.7 | 1.1 | 5.7 | 5.8 | 2.9 |
| Prop In Lane | | 0.67 | 1.00 | | 1.00 | 1.00 |
| Lane Grp Cap(c), veh/h | 446 | 419 | 90 | 1559 | 512 | 456 |
| V/C Ratio(X) | 0.51 | 0.52 | 0.65 | 0.54 | 0.69 | 0.39 |
| Avail Cap(c_a), veh/h | 1378 | 1294 | 569 | 4378 | 2194 | 1953 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 10.6 | 10.6 | 15.3 | 6.8 | 10.4 | 9.4 |
| Incr Delay (d2), s/veh | 0.9 | 1.0 | 7.7 | 0.3 | 1.7 | 0.5 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 1.1 | 1.1 | 0.5 | 1.2 | 1.5 | 0.7 |
| Unsig. Movement Delay, s/veh | | | | | | |
| LnGrp Delay(d),s/veh | 11.5 | 11.6 | 23.1 | 7.1 | 12.1 | 9.9 |
| LnGrp LOS | B | B | C | A | B | A |
| Approach Vol, veh/h | 447 | | | 899 | 531 | |
| Approach Delay, s/veh | 11.5 | | | 8.1 | 11.4 | |
| Approach LOS | B | | | A | B | |
| Timer - Assigned Phs | | 2 | 3 | 4 | | 8 |
| Phs Duration (G + Y + Rc), s | | 13.9 | 6.2 | 12.8 | | 18.9 |
| Change Period (Y + Rc), s | | 4.5 | 4.5 | 4.5 | | 4.5 |
| Max Green Setting (Gmax), s | | 40.5 | 10.5 | 25.5 | | 40.5 |
| Max Q Clear Time (g_c + I1), s | | 7.8 | 3.1 | 5.7 | | 7.7 |
| Green Ext Time (p_c), s | | 1.6 | 0.1 | 2.5 | | 6.6 |
| Intersection Summary | | | | | | |
| HCM 6th Ctrl Delay | | | 9.9 | | | |
| HCM 6th LOS | | | A | | | |

LOS Engineering, Inc.

AM Horizon Year
3: Central Ave & Beyer Blvd

HCM 6th Signalized Intersection Summary

| |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations |  |  | |  |  | |  |  | |  |  | |
| Traffic Volume (veh/h) | 39 | 284 | 83 | 126 | 476 | 5 | 196 | 33 | 236 | 5 | 27 | 155 |
| Future Volume (veh/h) | 39 | 284 | 83 | 126 | 476 | 5 | 196 | 33 | 236 | 5 | 27 | 155 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 42 | 309 | 90 | 137 | 517 | 5 | 213 | 36 | 257 | 5 | 29 | 168 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 64 | 499 | 143 | 155 | 845 | 8 | 294 | 50 | 353 | 155 | 41 | 238 |
| Arrive On Green | 0.04 | 0.18 | 0.18 | 0.09 | 0.23 | 0.23 | 0.16 | 0.25 | 0.25 | 0.09 | 0.17 | 0.17 |
| Sat Flow, veh/h | 1781 | 2726 | 781 | 1781 | 3606 | 35 | 1781 | 198 | 1417 | 1781 | 239 | 1383 |
| Grp Volume(v), veh/h | 42 | 200 | 199 | 137 | 255 | 267 | 213 | 0 | 293 | 5 | 0 | 197 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1777 | 1730 | 1781 | 1777 | 1864 | 1781 | 0 | 1615 | 1781 | 0 | 1621 |
| Q Serve(g_s), s | 1.1 | 4.7 | 4.9 | 3.5 | 5.9 | 5.9 | 5.2 | 0.0 | 7.6 | 0.1 | 0.0 | 5.2 |
| Cycle Q Clear(g_c), s | 1.1 | 4.7 | 4.9 | 3.5 | 5.9 | 5.9 | 5.2 | 0.0 | 7.6 | 0.1 | 0.0 | 5.2 |
| Prop In Lane | 1.00 | | 0.45 | 1.00 | | 0.02 | 1.00 | | 0.88 | 1.00 | | 0.85 |
| Lane Grp Cap(c), veh/h | 64 | 325 | 317 | 155 | 416 | 437 | 294 | 0 | 403 | 155 | 0 | 279 |
| V/C Ratio(X) | 0.65 | 0.61 | 0.63 | 0.88 | 0.61 | 0.61 | 0.72 | 0.00 | 0.73 | 0.03 | 0.00 | 0.71 |
| Avail Cap(c_a), veh/h | 155 | 620 | 604 | 155 | 620 | 651 | 622 | 0 | 564 | 622 | 0 | 566 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 |
| Uniform Delay (d), s/veh | 21.8 | 17.2 | 17.3 | 20.7 | 15.7 | 15.7 | 18.1 | 0.0 | 15.8 | 19.1 | 0.0 | 17.9 |
| Incr Delay (d2), s/veh | 10.6 | 1.9 | 2.1 | 40.0 | 1.5 | 1.4 | 3.4 | 0.0 | 2.9 | 0.1 | 0.0 | 3.3 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.6 | 1.8 | 1.8 | 3.0 | 2.1 | 2.2 | 2.0 | 0.0 | 2.5 | 0.0 | 0.0 | 1.8 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 32.4 | 19.1 | 19.3 | 60.6 | 17.1 | 17.1 | 21.5 | 0.0 | 18.6 | 19.2 | 0.0 | 21.2 |
| LnGrp LOS | C | B | B | E | B | B | C | A | B | B | A | C |
| Approach Vol, veh/h | | 441 | | | 659 | | | 506 | | | 202 | |
| Approach Delay, s/veh | | 20.5 | | | 26.2 | | | 19.9 | | | 21.1 | |
| Approach LOS | | C | | | C | | | B | | | C | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G + Y + Rc), s | 8.5 | 15.9 | 8.5 | 12.9 | 12.1 | 12.4 | 6.2 | 15.2 | | | | |
| Change Period (Y + Rc), s | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | | | | |
| Max Green Setting (Gmax), s | 16.0 | 16.0 | 4.0 | 16.0 | 16.0 | 16.0 | 4.0 | 16.0 | | | | |
| Max Q Clear Time (g_c + I1), s | 2.1 | 9.6 | 5.5 | 6.9 | 7.2 | 7.2 | 3.1 | 7.9 | | | | |
| Green Ext Time (p_c), s | 0.0 | 0.8 | 0.0 | 1.5 | 0.4 | 0.6 | 0.0 | 1.9 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 6th Ctrl Delay | | | | 22.4 | | | | | | | | |
| HCM 6th LOS | | | | C | | | | | | | | |

LOS Engineering, Inc.

AM Horizon Year
4: Caliente Ave & Beyer Blvd

HCM 6th Signalized Intersection Summary



























| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
|--------------------------------|------|------|------|------|------|------|
| Lane Configurations | | | | | | |
| Traffic Volume (veh/h) | 408 | 112 | 261 | 792 | 367 | 340 |
| Future Volume (veh/h) | 408 | 112 | 261 | 792 | 367 | 340 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | 1.00 | 1.00 | | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 443 | 122 | 284 | 861 | 399 | 370 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 762 | 349 | 495 | 1896 | 949 | 745 |
| Arrive On Green | 0.22 | 0.22 | 0.14 | 0.53 | 0.27 | 0.27 |
| Sat Flow, veh/h | 3456 | 1585 | 3456 | 3647 | 3647 | 2790 |
| Grp Volume(v), veh/h | 443 | 122 | 284 | 861 | 399 | 370 |
| Grp Sat Flow(s),veh/h/ln | 1728 | 1585 | 1728 | 1777 | 1777 | 1395 |
| Q Serve(g_s), s | 4.2 | 2.4 | 2.8 | 5.5 | 3.4 | 4.1 |
| Cycle Q Clear(g_c), s | 4.2 | 2.4 | 2.8 | 5.5 | 3.4 | 4.1 |
| Prop In Lane | 1.00 | 1.00 | 1.00 | | | 1.00 |
| Lane Grp Cap(c), veh/h | 762 | 349 | 495 | 1896 | 949 | 745 |
| V/C Ratio(X) | 0.58 | 0.35 | 0.57 | 0.45 | 0.42 | 0.50 |
| Avail Cap(c_a), veh/h | 2315 | 1062 | 1654 | 4518 | 2381 | 1869 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 12.7 | 12.0 | 14.6 | 5.3 | 11.1 | 11.3 |
| Incr Delay (d2), s/veh | 0.7 | 0.6 | 1.1 | 0.2 | 0.3 | 0.5 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 1.3 | 2.3 | 0.9 | 0.7 | 0.9 | 0.9 |
| Unsig. Movement Delay, s/veh | | | | | | |
| LnGrp Delay(d),s/veh | 13.5 | 12.6 | 15.7 | 5.4 | 11.4 | 11.8 |
| LnGrp LOS | B | B | B | A | B | B |
| Approach Vol, veh/h | 565 | | | 1145 | 769 | |
| Approach Delay, s/veh | 13.3 | | | 8.0 | 11.6 | |
| Approach LOS | B | | | A | B | |
| Timer - Assigned Phs | | 2 | | 4 | 5 | 6 |
| Phs Duration (G + Y + Rc), s | | 24.0 | | 12.6 | 9.7 | 14.3 |
| Change Period (Y + Rc), s | | 4.5 | | 4.5 | 4.5 | 4.5 |
| Max Green Setting (Gmax), s | | 46.5 | | 24.5 | 17.5 | 24.5 |
| Max Q Clear Time (g_c + I1), s | | 7.5 | | 6.2 | 4.8 | 6.1 |
| Green Ext Time (p_c), s | | 6.4 | | 1.9 | 0.7 | 3.7 |
| Intersection Summary | | | | | | |
| HCM 6th Ctrl Delay | | | 10.3 | | | |
| HCM 6th LOS | | | B | | | |

LOS Engineering, Inc.

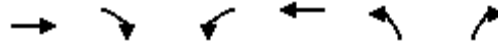
PM Horizon Year

1: E Beyer Blvd/Otay Mesa Rd & Beyer Blvd

HCM 6th Signalized Intersection Summary

| |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations |  |  |  |  |  |  |  |  |  |  |  |  |
| Traffic Volume (veh/h) | 79 | 582 | 212 | 1030 | 657 | 78 | 130 | 121 | 591 | 222 | 130 | 116 |
| Future Volume (veh/h) | 79 | 582 | 212 | 1030 | 657 | 78 | 130 | 121 | 591 | 222 | 130 | 116 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 0.90 | 1.00 | | 0.97 | 1.00 | | 0.86 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 86 | 633 | 230 | 1120 | 714 | 85 | 141 | 132 | 642 | 241 | 141 | -146 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 133 | 719 | 668 | 1157 | 1781 | 1013 | 200 | 621 | 1351 | 272 | 965 | 865 |
| Arrive On Green | 0.04 | 0.20 | 0.20 | 0.33 | 0.50 | 0.50 | 0.06 | 0.17 | 0.17 | 0.15 | 0.27 | 0.00 |
| Sat Flow, veh/h | 3456 | 3554 | 2507 | 3456 | 3554 | 1539 | 3456 | 3554 | 2389 | 1781 | 3554 | 2790 |
| Grp Volume(v), veh/h | 86 | 633 | 230 | 1120 | 714 | 85 | 141 | 132 | 642 | 241 | 141 | -146 |
| Grp Sat Flow(s),veh/h/ln | 1728 | 1777 | 1253 | 1728 | 1777 | 1539 | 1728 | 1777 | 1194 | 1781 | 1777 | 1395 |
| Q Serve(g_s), s | 3.7 | 25.7 | 11.1 | 47.5 | 18.7 | 3.0 | 6.0 | 4.7 | 26.0 | 19.7 | 4.5 | 0.0 |
| Cycle Q Clear(g_c), s | 3.7 | 25.7 | 11.1 | 47.5 | 18.7 | 3.0 | 6.0 | 4.7 | 26.0 | 19.7 | 4.5 | 0.0 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 133 | 719 | 668 | 1157 | 1781 | 1013 | 200 | 621 | 1351 | 272 | 965 | 865 |
| V/C Ratio(X) | 0.65 | 0.88 | 0.34 | 0.97 | 0.40 | 0.08 | 0.71 | 0.21 | 0.48 | 0.89 | 0.15 | -0.17 |
| Avail Cap(c_a), veh/h | 708 | 719 | 668 | 1163 | 1781 | 1013 | 536 | 621 | 1351 | 406 | 965 | 865 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh | 70.6 | 57.6 | 44.9 | 48.7 | 23.2 | 9.4 | 68.9 | 52.7 | 24.5 | 61.8 | 41.1 | 0.0 |
| Incr Delay (d2), s/veh | 5.2 | 14.6 | 1.4 | 19.1 | 0.1 | 0.0 | 7.6 | 0.3 | 0.4 | 18.5 | 0.1 | 0.0 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 1.7 | 12.8 | 3.6 | 22.9 | 7.7 | 1.0 | 2.8 | 2.1 | 7.4 | 10.2 | 2.0 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 75.8 | 72.2 | 46.3 | 67.9 | 23.3 | 9.5 | 76.5 | 52.9 | 24.9 | 80.2 | 41.2 | 0.0 |
| LnGrp LOS | E | E | D | E | C | A | E | D | C | F | D | A |
| Approach Vol, veh/h | | 949 | | | 1919 | | | 915 | | | 236 | |
| Approach Delay, s/veh | | 66.2 | | | 48.7 | | | 36.9 | | | 106.6 | |
| Approach LOS | | E | | | D | | | D | | | F | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G + Y + Rc), s | 54.7 | 35.0 | 13.5 | 45.6 | 10.2 | 79.5 | 27.9 | 31.2 | | | | |
| Change Period (Y + Rc), s | 4.9 | 4.9 | 4.9 | 5.2 | 4.5 | 4.9 | 5.2 | * 5.2 | | | | |
| Max Green Setting (Gmax), s | 50.1 | 30.1 | 23.1 | 36.8 | 30.5 | 50.1 | 33.9 | * 26 | | | | |
| Max Q Clear Time (g_c + I1), s | 49.5 | 27.7 | 8.0 | 6.5 | 5.7 | 20.7 | 21.7 | 28.0 | | | | |
| Green Ext Time (p_c), s | 0.3 | 1.1 | 0.6 | 1.3 | 0.2 | 4.9 | 1.0 | 0.0 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 6th Ctrl Delay | | | 53.6 | | | | | | | | | |
| HCM 6th LOS | | | D | | | | | | | | | |

LOS Engineering, Inc.























| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
|--------------------------------|------|------|------|------|------|------|
| Lane Configurations | ↑↓ | | ↖ | ↑↑ | ↖ | ↗ |
| Traffic Volume (veh/h) | 912 | 439 | 187 | 491 | 273 | 149 |
| Future Volume (veh/h) | 912 | 439 | 187 | 491 | 273 | 149 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | | 1.00 | 1.00 | | 1.00 | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 991 | 477 | 203 | 534 | 297 | 162 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 1116 | 526 | 245 | 2402 | 354 | 315 |
| Arrive On Green | 0.48 | 0.48 | 0.14 | 0.68 | 0.20 | 0.20 |
| Sat Flow, veh/h | 2437 | 1105 | 1781 | 3647 | 1781 | 1585 |
| Grp Volume(v), veh/h | 746 | 722 | 203 | 534 | 297 | 162 |
| Grp Sat Flow(s),veh/h/ln | 1777 | 1672 | 1781 | 1777 | 1781 | 1585 |
| Q Serve(g_s), s | 27.3 | 28.7 | 8.0 | 4.1 | 11.5 | 6.6 |
| Cycle Q Clear(g_c), s | 27.3 | 28.7 | 8.0 | 4.1 | 11.5 | 6.6 |
| Prop In Lane | | 0.66 | 1.00 | | 1.00 | 1.00 |
| Lane Grp Cap(c), veh/h | 846 | 796 | 245 | 2402 | 354 | 315 |
| V/C Ratio(X) | 0.88 | 0.91 | 0.83 | 0.22 | 0.84 | 0.51 |
| Avail Cap(c_a), veh/h | 876 | 824 | 285 | 2542 | 483 | 429 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 17.0 | 17.4 | 30.2 | 4.4 | 27.7 | 25.7 |
| Incr Delay (d2), s/veh | 10.2 | 13.5 | 16.2 | 0.0 | 9.3 | 1.3 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 11.9 | 12.4 | 4.3 | 1.1 | 5.3 | 2.4 |
| Unsig. Movement Delay, s/veh | | | | | | |
| LnGrp Delay(d),s/veh | 27.3 | 30.8 | 46.4 | 4.5 | 37.0 | 27.0 |
| LnGrp LOS | C | C | D | A | D | C |
| Approach Vol, veh/h | 1468 | | | 737 | 459 | |
| Approach Delay, s/veh | 29.0 | | | 16.0 | 33.5 | |
| Approach LOS | C | | | B | C | |
| Timer - Assigned Phs | | 2 | 3 | 4 | | 8 |
| Phs Duration (G + Y + Rc), s | | 18.8 | 14.4 | 38.8 | | 53.2 |
| Change Period (Y + Rc), s | | 4.5 | 4.5 | 4.5 | | 4.5 |
| Max Green Setting (Gmax), s | | 19.5 | 11.5 | 35.5 | | 51.5 |
| Max Q Clear Time (g_c + I1), s | | 13.5 | 10.0 | 30.7 | | 6.1 |
| Green Ext Time (p_c), s | | 0.8 | 0.1 | 3.6 | | 3.9 |
| Intersection Summary | | | | | | |
| HCM 6th Ctrl Delay | | | 26.2 | | | |
| HCM 6th LOS | | | C | | | |

LOS Engineering, Inc.

PM Horizon Year
3: Central Ave & Beyer Blvd

HCM 6th Signalized Intersection Summary

| |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations |  |  | |  |  | |  |  | |  |  | |
| Traffic Volume (veh/h) | 166 | 614 | 252 | 343 | 452 | 5 | 154 | 30 | 245 | 5 | 94 | 72 |
| Future Volume (veh/h) | 166 | 614 | 252 | 343 | 452 | 5 | 154 | 30 | 245 | 5 | 94 | 72 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 180 | 667 | 274 | 373 | 491 | 5 | 167 | 33 | 266 | 5 | 102 | 78 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 223 | 662 | 272 | 410 | 1350 | 14 | 214 | 38 | 303 | 94 | 141 | 108 |
| Arrive On Green | 0.13 | 0.27 | 0.27 | 0.23 | 0.37 | 0.37 | 0.12 | 0.21 | 0.21 | 0.05 | 0.14 | 0.14 |
| Sat Flow, veh/h | 1781 | 2457 | 1009 | 1781 | 3604 | 37 | 1781 | 178 | 1434 | 1781 | 983 | 752 |
| Grp Volume(v), veh/h | 180 | 482 | 459 | 373 | 242 | 254 | 167 | 0 | 299 | 5 | 0 | 180 |
| Grp Sat Flow(s),veh/h/ln | 1781 | 1777 | 1689 | 1781 | 1777 | 1864 | 1781 | 0 | 1612 | 1781 | 0 | 1735 |
| Q Serve(g_s), s | 7.5 | 20.5 | 20.5 | 15.5 | 7.5 | 7.5 | 6.9 | 0.0 | 13.7 | 0.2 | 0.0 | 7.5 |
| Cycle Q Clear(g_c), s | 7.5 | 20.5 | 20.5 | 15.5 | 7.5 | 7.5 | 6.9 | 0.0 | 13.7 | 0.2 | 0.0 | 7.5 |
| Prop In Lane | 1.00 | | 0.60 | 1.00 | | 0.02 | 1.00 | | 0.89 | 1.00 | | 0.43 |
| Lane Grp Cap(c), veh/h | 223 | 479 | 455 | 410 | 665 | 698 | 214 | 0 | 340 | 94 | 0 | 249 |
| V/C Ratio(X) | 0.81 | 1.01 | 1.01 | 0.91 | 0.36 | 0.36 | 0.78 | 0.00 | 0.88 | 0.05 | 0.00 | 0.72 |
| Avail Cap(c_a), veh/h | 391 | 479 | 455 | 410 | 665 | 698 | 375 | 0 | 382 | 375 | 0 | 411 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 |
| Uniform Delay (d), s/veh | 32.4 | 27.8 | 27.8 | 28.5 | 17.2 | 17.2 | 32.5 | 0.0 | 29.1 | 34.2 | 0.0 | 31.1 |
| Incr Delay (d2), s/veh | 6.8 | 42.9 | 44.0 | 23.9 | 0.3 | 0.3 | 6.1 | 0.0 | 18.9 | 0.2 | 0.0 | 4.0 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 3.5 | 13.8 | 13.2 | 8.9 | 2.9 | 3.0 | 3.1 | 0.0 | 6.6 | 0.1 | 0.0 | 3.2 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 39.1 | 70.7 | 71.8 | 52.4 | 17.6 | 17.5 | 38.5 | 0.0 | 47.9 | 34.5 | 0.0 | 35.1 |
| LnGrp LOS | D | F | F | D | B | B | D | A | D | C | A | D |
| Approach Vol, veh/h | | 1121 | | | 869 | | | 466 | | | 185 | |
| Approach Delay, s/veh | | 66.0 | | | 32.5 | | | 44.6 | | | 35.1 | |
| Approach LOS | | E | | | C | | | D | | | D | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G + Y + Rc), s | 8.5 | 20.5 | 22.0 | 25.0 | 13.6 | 15.4 | 14.0 | 33.0 | | | | |
| Change Period (Y + Rc), s | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | | | | |
| Max Green Setting (Gmax), s | 16.0 | 18.0 | 17.5 | 20.5 | 16.0 | 18.0 | 16.7 | 21.3 | | | | |
| Max Q Clear Time (g_c + I1), s | 2.2 | 15.7 | 17.5 | 22.5 | 8.9 | 9.5 | 9.5 | 9.5 | | | | |
| Green Ext Time (p_c), s | 0.0 | 0.4 | 0.0 | 0.0 | 0.2 | 0.5 | 0.3 | 2.2 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 6th Ctrl Delay | | | 49.1 | | | | | | | | | |
| HCM 6th LOS | | | D | | | | | | | | | |

LOS Engineering, Inc.

PM Horizon Year
4: Caliente Ave & Beyer Blvd

HCM 6th Signalized Intersection Summary



| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
|--------------------------------|------|------|------|------|------|------|
| Lane Configurations | | | | | | |
| Traffic Volume (veh/h) | 541 | 317 | 187 | 597 | 966 | 609 |
| Future Volume (veh/h) | 541 | 317 | 187 | 597 | 966 | 609 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | 1.00 | 1.00 | | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 588 | 345 | 203 | 649 | 1050 | 662 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 908 | 417 | 311 | 2030 | 1416 | 1112 |
| Arrive On Green | 0.26 | 0.26 | 0.09 | 0.57 | 0.40 | 0.40 |
| Sat Flow, veh/h | 3456 | 1585 | 3456 | 3647 | 3647 | 2790 |
| Grp Volume(v), veh/h | 588 | 345 | 203 | 649 | 1050 | 662 |
| Grp Sat Flow(s),veh/h/ln | 1728 | 1585 | 1728 | 1777 | 1777 | 1395 |
| Q Serve(g_s), s | 8.2 | 11.1 | 3.1 | 5.2 | 13.7 | 10.2 |
| Cycle Q Clear(g_c), s | 8.2 | 11.1 | 3.1 | 5.2 | 13.7 | 10.2 |
| Prop In Lane | 1.00 | 1.00 | 1.00 | | | 1.00 |
| Lane Grp Cap(c), veh/h | 908 | 417 | 311 | 2030 | 1416 | 1112 |
| V/C Ratio(X) | 0.65 | 0.83 | 0.65 | 0.32 | 0.74 | 0.60 |
| Avail Cap(c_a), veh/h | 1019 | 467 | 363 | 2291 | 1624 | 1275 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 17.8 | 18.9 | 23.9 | 6.1 | 13.9 | 12.9 |
| Incr Delay (d2), s/veh | 1.2 | 10.8 | 3.3 | 0.1 | 1.6 | 0.6 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 3.0 | 10.3 | 1.2 | 1.2 | 4.4 | 2.5 |
| Unsig. Movement Delay, s/veh | | | | | | |
| LnGrp Delay(d),s/veh | 19.0 | 29.6 | 27.2 | 6.2 | 15.5 | 13.5 |
| LnGrp LOS | B | C | C | A | B | B |
| Approach Vol, veh/h | 933 | | | 852 | 1712 | |
| Approach Delay, s/veh | 22.9 | | | 11.2 | 14.7 | |
| Approach LOS | C | | | B | B | |
| Timer - Assigned Phs | | 2 | | 4 | 5 | 6 |
| Phs Duration (G + Y + Rc), s | | 35.5 | | 18.8 | 9.4 | 26.1 |
| Change Period (Y + Rc), s | | 4.5 | | 4.5 | 4.5 | 4.5 |
| Max Green Setting (Gmax), s | | 35.0 | | 16.0 | 5.7 | 24.8 |
| Max Q Clear Time (g_c + I1), s | | 7.2 | | 13.1 | 5.1 | 15.7 |
| Green Ext Time (p_c), s | | 4.3 | | 1.1 | 0.0 | 5.9 |
| Intersection Summary | | | | | | |
| HCM 6th Ctrl Delay | | | 16.1 | | | |
| HCM 6th LOS | | | B | | | |

LOS Engineering, Inc.

Beyer Blvd 2 Lane Supplemental Analysis (LOS Engineering, Inc.)

Beyer at E. Beyer Intersection Options for Horizon Year Operations

This planning level analysis includes widening scenarios at intersection of Beyer Blvd at E. Beyer Blvd to determine what percent of San Ysidro CPU horizon year volumes can be supported. LOS worksheets are included following the text.

Base Condition: Beyer Blvd at E. Beyer Blvd with the following Right-Of-Way



Existing Volumes (Thur, 2/10/2022)

| | | | | | |
|------------|--------------|---------------|----------|--------------------|-----|
| Beyer Blvd | 354 (169) | 171 (109) | 0 (1) | (Old) Otay Mesa Rd | |
| 482 | (130) | N-S Permitted | | 6 | (1) |
| 12 | (18) | E-W | | 15 | (7) |
| 143 | (178) | Split Phase | | 11 | (9) |
| | 93 (75) | 238 (71) | 4 (5) | E. Beyer Blvd | |

AM LOS C 28.6 sec of delay
PM LOS C 20.1 sec of delay

Horizon Year Volumes (San Ysidro CPU)

| | | | | | |
|------------|--------------|---------------|--------------|--------------------|--------|
| Beyer Blvd | 508 (116) | 265 (130) | 133 (222) | (Old) Otay Mesa Rd | |
| 564 | (79) | N-S Permitted | | 218 | (78) |
| 802 | (582) | E-W | | 920 | (657) |
| 340 | (212) | Split Phase | | 866 | (1030) |
| | 466 (130) | 372 (121) | 808 (591) | E. Beyer Blvd | |

AM LOS F 195.2 sec of delay after Mitigation
PM LOS F 155.8 sec of delay after Mitigation
SYCPU: Impact considered unavoidable.

Scenario 1: Within Existing Right-Of-Way

Working within available ROW (blue lines represent existing ROW).

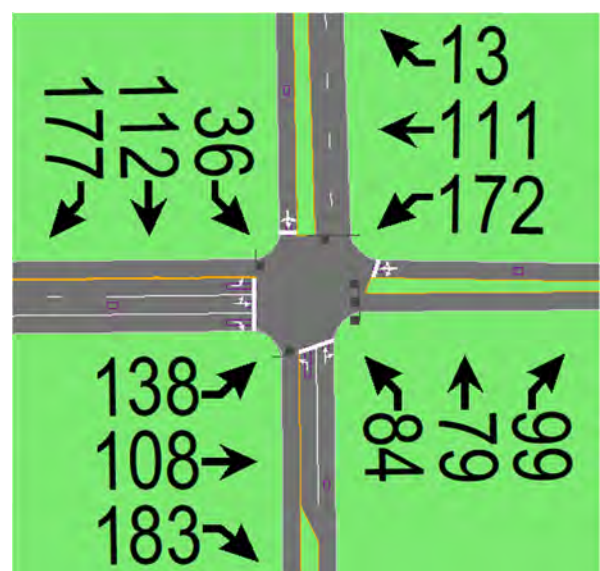
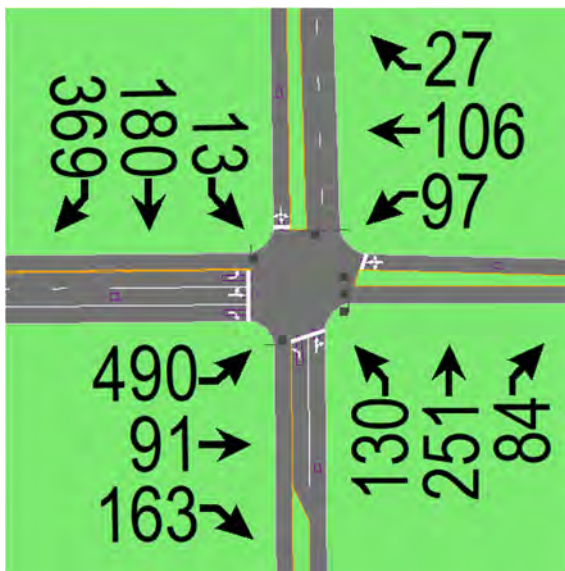


AM LOS D (50.7 sec of delay) at 32% of SYCPU Horizon Year Volumes

PM LOS D (52.5 sec of delay) at 33% of SYCPU Horizon Year Volumes

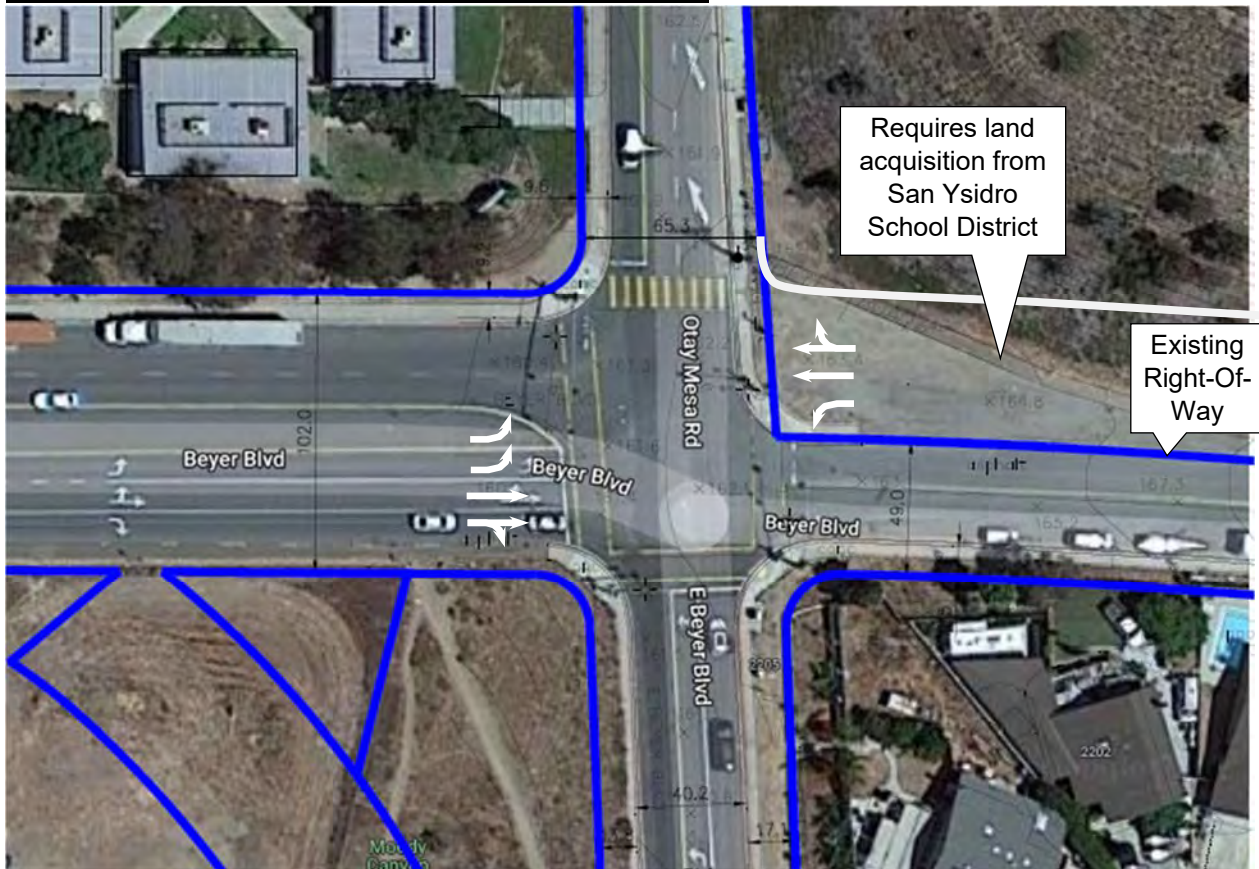
AM (32% of horizon volume)

PM (33% of horizon volume)



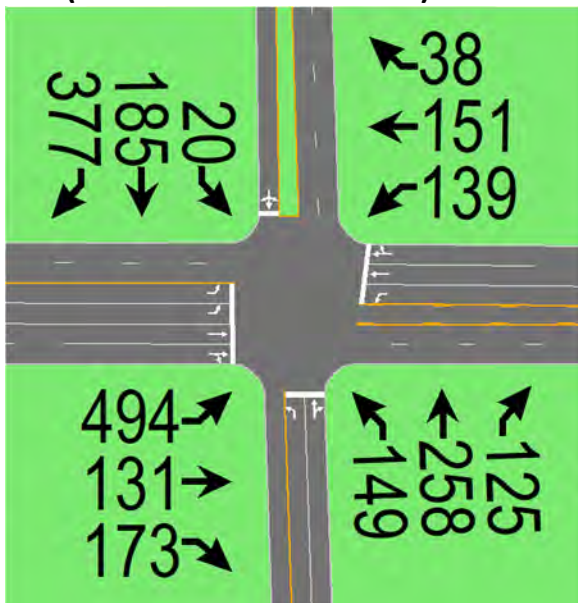
Scenario 2: Widening within San Ysidro School District with lanes as shown

Requires ROW from San Ysidro School District.

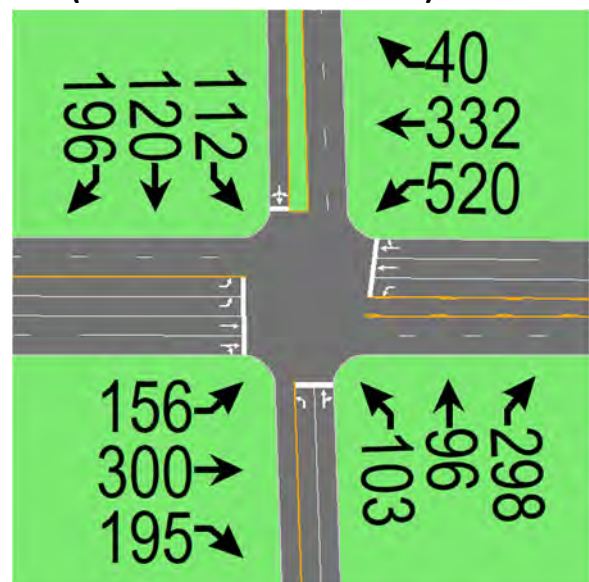


AM LOS D (54.0 sec of delay) at 36% of SYCPU Horizon Year Volumes
 PM LOS D (52.7 sec of delay) at 63% of SYCPU Horizon Year Volumes

AM (36% of horizon volumes)

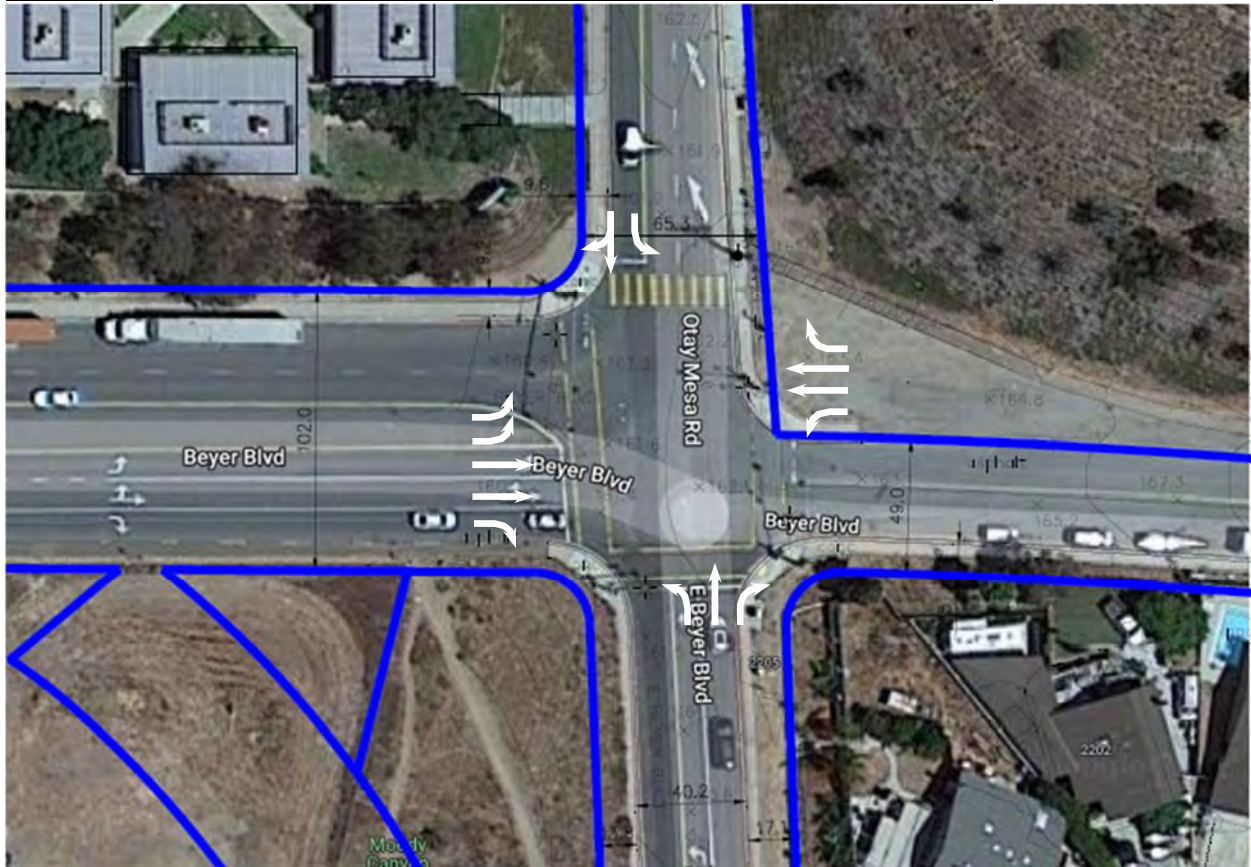


PM (63% of horizon volumes)



Scenario 3: SYCPU EIR fails to support 100% of the Horizon Year Volumes

From San Ysidro CPU (ROW requirement not defined in the CPU).



AM LOS F (195.2 sec of delay) with SYCPU Horizon Year Volumes
 AM LOS Worksheet SYCPU (Kimley-Horn)

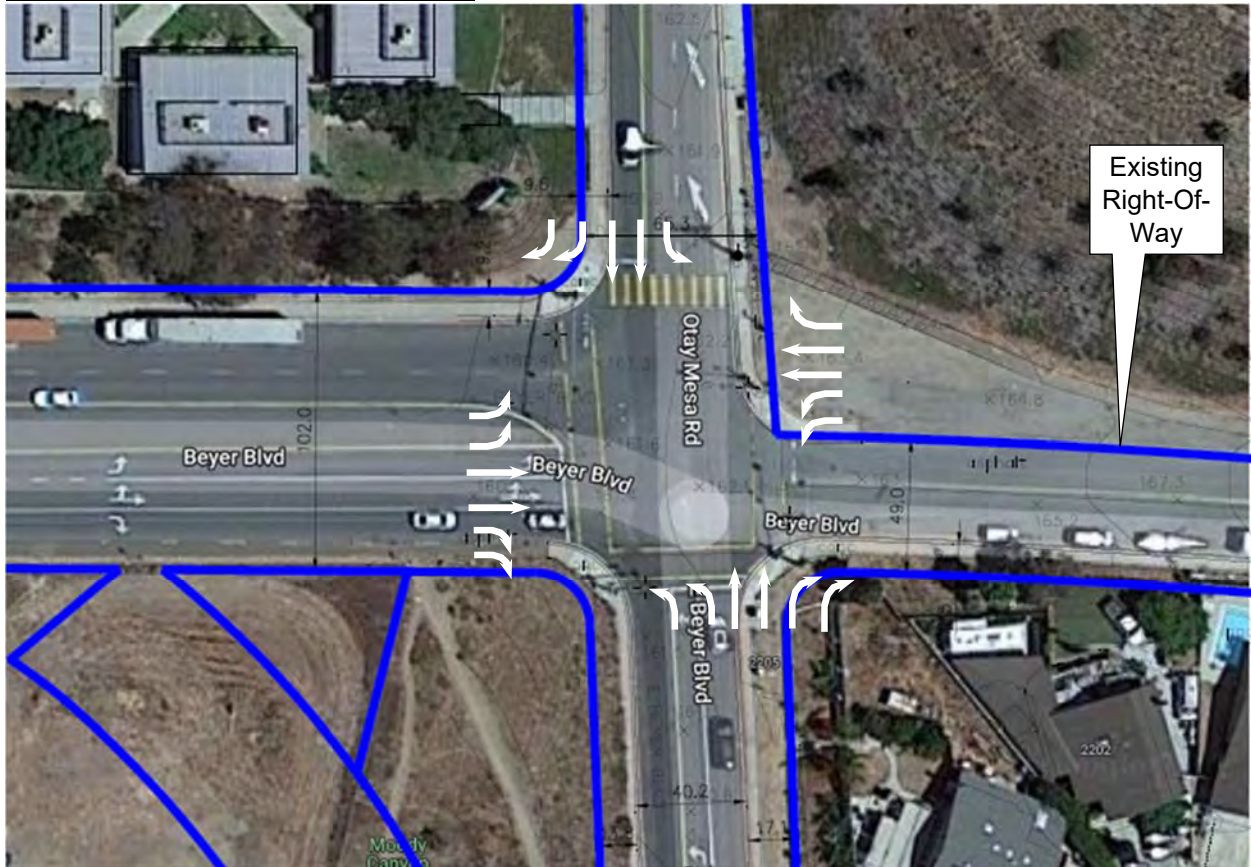
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lane Configurations | ↖↗ | ↕↕ | ↖ | ↖ | ↕↕ | ↖ | ↖ | ↕ | ↖ | | ↖ | ↖ |
| Volume (vph) | 557 | 803 | 329 | 856 | 918 | 219 | 452 | 369 | 796 | 135 | 260 | 504 |

PM LOS F (155.8 sec of delay) with SYCPU Horizon Year Volumes
 PM LOS Worksheet from SYCPU (Kimley-Horn)

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---------------------|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|
| Lane Configurations | ↖↗ | ↕↕ | ↖ | ↖ | ↕↕ | ↖ | ↖ | ↕ | ↖ | | ↖ | ↖ |
| Volume (vph) | 79 | 580 | 205 | 1018 | 657 | 79 | 123 | 118 | 586 | 223 | 126 | 116 |

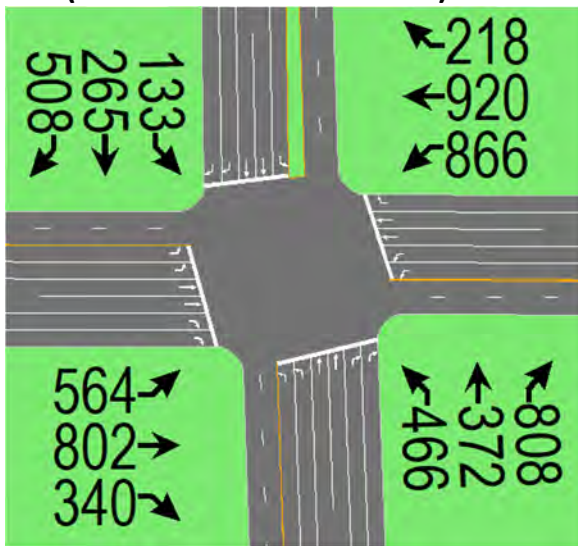
Scenario 4: Lane requirements to support 100% of the Horizon Year Volumes

Requires ROW from all corners

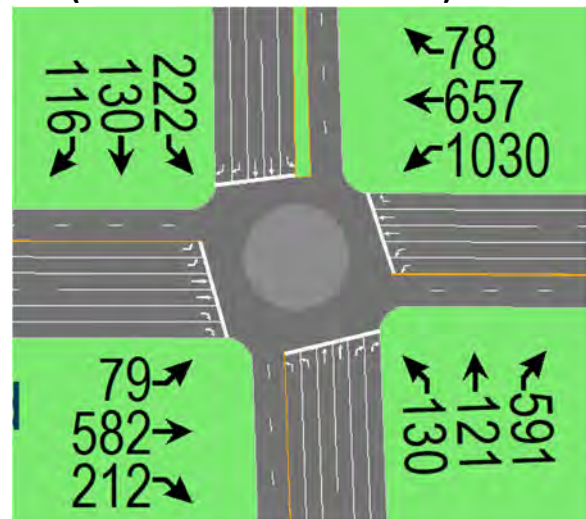


AM LOS D (54.8 sec of delay) at 100% of SYCPU Horizon Year Volumes
 PM LOS D (54.9 sec of delay) at 100% of SYCPU Horizon Year Volumes

AM (100% of horizon volumes)



PM (100% of horizon volumes)



CONCLUSION

Scenario 1 shows how much of the Horizon Year volumes can be supported within the existing right-of-way, which is 32% in the AM and 33% in the PM.

Scenario 2 covers widening within San Ysidro School District that results in supporting Horizon Year volumes at 36% in the AM and 63% in the PM.

Scenario 3 shows how the SYCPU EIR fails to support 100% of the Horizon Year Volumes.

Scenario 4 covers what is required to support 100% of the San Ysidro CPU horizon year volumes at the intersection of Beyer Blvd/E. Beyer Blvd. This scenario requires expanding the intersection well beyond available ROW to incorporate multiple approach lanes that are excessive for the roadway classifications.

The findings for each option are summarized below.




















Summary Table

| Scenario | % Capacity of Horizon Year Volume | Notes |
|----------|-----------------------------------|--|
| 1 | AM 32% PM 33% | Within existing ROW Adding E-W protected lefts |
| 2 | AM 36% PM 63% | Required ROW from San Ysidro School District Completes west leg of Beyer Blvd by adding left, through, and through-right lanes. |
| 3 | AM ≈100% PM ≈100% | From San Ysidro CPU with undefined ROW needs. Continues to have LOS F AM & PM |
| 4 | AM 100% PM 100% | Requires ROW from each corner. Approach lanes exceed what is typically required for the respective approach classifications. |

Scenario 1 LOS Worksheets

AM at 32% of SYCPU Horizon Year Volume
 10: E Beyer Blvd/Old Otay Mesa Rd & Beyer Blvd




















HCM 6th Signalized Intersection Summary

| |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations |  |  |  | |  | |  |  | | | |  |
| Traffic Volume (veh/h) | 490 | 91 | 163 | 97 | 106 | 27 | 130 | 251 | 84 | 13 | 180 | 369 |
| Future Volume (veh/h) | 490 | 91 | 163 | 97 | 106 | 27 | 130 | 251 | 84 | 13 | 180 | 369 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 0.92 | 1.00 | | 0.96 | 1.00 | | 0.93 | 1.00 | | 0.96 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 669 | 0 | 196 | 121 | 132 | 34 | 186 | 359 | 120 | 15 | 202 | 415 |
| Peak Hour Factor | 0.83 | 0.83 | 0.83 | 0.80 | 0.80 | 0.80 | 0.70 | 0.70 | 0.70 | 0.89 | 0.89 | 0.89 |
| Percent Heavy Veh, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Cap, veh/h | 898 | 0 | 368 | 146 | 159 | 41 | 164 | 545 | 182 | 40 | 222 | 439 |
| Arrive On Green | 0.25 | 0.00 | 0.25 | 0.20 | 0.20 | 0.20 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 |
| Sat Flow, veh/h | 3534 | 0 | 1448 | 746 | 814 | 210 | 800 | 1304 | 436 | 17 | 532 | 1050 |
| Grp Volume(v), veh/h | 669 | 0 | 196 | 287 | 0 | 0 | 186 | 0 | 479 | 632 | 0 | 0 |
| Grp Sat Flow(s),veh/h/ln | 1767 | 0 | 1448 | 1769 | 0 | 0 | 800 | 0 | 1740 | 1599 | 0 | 0 |
| Q Serve(g_s), s | 19.3 | 0.0 | 12.9 | 17.2 | 0.0 | 0.0 | 4.2 | 0.0 | 24.5 | 16.8 | 0.0 | 0.0 |
| Cycle Q Clear(g_c), s | 19.3 | 0.0 | 12.9 | 17.2 | 0.0 | 0.0 | 46.2 | 0.0 | 24.5 | 42.0 | 0.0 | 0.0 |
| Prop In Lane | 1.00 | | 1.00 | 0.42 | | 0.12 | 1.00 | | 0.25 | 0.02 | | 0.66 |
| Lane Grp Cap(c), veh/h | 898 | 0 | 368 | 346 | 0 | 0 | 164 | 0 | 727 | 701 | 0 | 0 |
| V/C Ratio(X) | 0.75 | 0.00 | 0.53 | 0.83 | 0.00 | 0.00 | 1.14 | 0.00 | 0.66 | 0.90 | 0.00 | 0.00 |
| Avail Cap(c_a), veh/h | 898 | 0 | 368 | 416 | 0 | 0 | 164 | 0 | 727 | 707 | 0 | 0 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 0.00 |
| Uniform Delay (d), s/veh | 38.0 | 0.0 | 35.6 | 42.7 | 0.0 | 0.0 | 44.4 | 0.0 | 25.9 | 30.9 | 0.0 | 0.0 |
| Incr Delay (d2), s/veh | 5.6 | 0.0 | 5.4 | 11.3 | 0.0 | 0.0 | 111.4 | 0.0 | 2.7 | 14.7 | 0.0 | 0.0 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 8.7 | 0.0 | 4.9 | 8.3 | 0.0 | 0.0 | 9.5 | 0.0 | 10.0 | 17.8 | 0.0 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 43.6 | 0.0 | 41.0 | 54.0 | 0.0 | 0.0 | 155.8 | 0.0 | 28.6 | 45.6 | 0.0 | 0.0 |
| LnGrp LOS | D | A | D | D | A | A | F | A | C | D | A | A |
| Approach Vol, veh/h | | 865 | | | 287 | | | 665 | | | 632 | |
| Approach Delay, s/veh | | 43.0 | | | 54.0 | | | 64.2 | | | 45.6 | |
| Approach LOS | | D | | | D | | | E | | | D | |
| Timer - Assigned Phs | | 2 | | 4 | | 6 | | 8 | | | | |
| Phs Duration (G+Y+Rc), s | | 33.0 | | 51.1 | | 26.5 | | 51.1 | | | | |
| Change Period (Y+Rc), s | | 4.9 | | * 4.9 | | 4.9 | | 4.9 | | | | |
| Max Green Setting (Gmax), s | | 28.1 | | * 47 | | 26.0 | | 46.2 | | | | |
| Max Q Clear Time (g_c+I1), s | | 21.3 | | 44.0 | | 19.2 | | 48.2 | | | | |
| Green Ext Time (p_c), s | | 1.9 | | 1.1 | | 0.8 | | 0.0 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 6th Ctrl Delay | | | | 50.7 | | | | | | | | |
| HCM 6th LOS | | | | D | | | | | | | | |

LOS Engineering, Inc.

PM at 33% of SYCPU Horizon Year Volume
 10: E Beyer Blvd/Old Otay Mesa Rd & Beyer Blvd

HCM 6th Signalized Intersection Summary





















| |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------|---|---|---|---|---|---|--|---|---|---|---|---|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations |  |  |  | |  | | |  |  | | |  |
| Traffic Volume (veh/h) | 138 | 108 | 183 | 172 | 111 | 13 | 84 | 79 | 99 | 36 | 112 | 177 |
| Future Volume (veh/h) | 138 | 108 | 183 | 172 | 111 | 13 | 84 | 79 | 99 | 36 | 112 | 177 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 0.97 | 1.00 | | 0.98 | 1.00 | | 0.96 | 0.99 | | 0.97 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 | 1856 |
| Adj Flow Rate, veh/h | 131 | 137 | 195 | 242 | 156 | 18 | 100 | 94 | 118 | 54 | 167 | 264 |
| Peak Hour Factor | 0.94 | 0.94 | 0.94 | 0.71 | 0.71 | 0.71 | 0.84 | 0.84 | 0.84 | 0.67 | 0.67 | 0.67 |
| Percent Heavy Veh, % | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Cap, veh/h | 519 | 545 | 448 | 270 | 174 | 20 | 180 | 210 | 264 | 75 | 157 | 226 |
| Arrive On Green | 0.29 | 0.29 | 0.29 | 0.26 | 0.26 | 0.26 | 0.29 | 0.29 | 0.29 | 0.29 | 0.29 | 0.29 |
| Sat Flow, veh/h | 1767 | 1856 | 1526 | 1040 | 670 | 77 | 949 | 730 | 917 | 110 | 548 | 786 |
| Grp Volume(v), veh/h | 131 | 137 | 195 | 416 | 0 | 0 | 100 | 0 | 212 | 485 | 0 | 0 |
| Grp Sat Flow(s),veh/h/ln | 1767 | 1856 | 1526 | 1787 | 0 | 0 | 949 | 0 | 1647 | 1444 | 0 | 0 |
| Q Serve(g_s), s | 5.2 | 5.2 | 9.5 | 20.7 | 0.0 | 0.0 | 0.0 | 0.0 | 9.7 | 16.8 | 0.0 | 0.0 |
| Cycle Q Clear(g_c), s | 5.2 | 5.2 | 9.5 | 20.7 | 0.0 | 0.0 | 25.7 | 0.0 | 9.7 | 26.5 | 0.0 | 0.0 |
| Prop In Lane | 1.00 | | 1.00 | 0.58 | | 0.04 | 1.00 | | 0.56 | 0.11 | | 0.54 |
| Lane Grp Cap(c), veh/h | 519 | 545 | 448 | 463 | 0 | 0 | 180 | 0 | 473 | 458 | 0 | 0 |
| V/C Ratio(X) | 0.25 | 0.25 | 0.43 | 0.90 | 0.00 | 0.00 | 0.55 | 0.00 | 0.45 | 1.06 | 0.00 | 0.00 |
| Avail Cap(c_a), veh/h | 519 | 545 | 448 | 525 | 0 | 0 | 180 | 0 | 473 | 458 | 0 | 0 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 0.00 |
| Uniform Delay (d), s/veh | 24.8 | 24.8 | 26.4 | 33.0 | 0.0 | 0.0 | 32.6 | 0.0 | 26.9 | 34.4 | 0.0 | 0.0 |
| Incr Delay (d2), s/veh | 1.2 | 1.1 | 3.1 | 16.7 | 0.0 | 0.0 | 5.3 | 0.0 | 1.1 | 58.2 | 0.0 | 0.0 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 2.2 | 2.3 | 3.6 | 10.5 | 0.0 | 0.0 | 2.3 | 0.0 | 3.7 | 17.3 | 0.0 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 26.0 | 25.9 | 29.4 | 49.7 | 0.0 | 0.0 | 37.9 | 0.0 | 28.0 | 92.6 | 0.0 | 0.0 |
| LnGrp LOS | C | C | C | D | A | A | D | A | C | F | A | A |
| Approach Vol, veh/h | | 463 | | | 416 | | | 312 | | | 485 | |
| Approach Delay, s/veh | | 27.4 | | | 49.7 | | | 31.2 | | | 92.6 | |
| Approach LOS | | C | | | D | | | C | | | F | |
| Timer - Assigned Phs | | 2 | | 4 | | 6 | | 8 | | | | |
| Phs Duration (G+Y+Rc), s | | 32.0 | | 31.4 | | 28.8 | | 31.4 | | | | |
| Change Period (Y+Rc), s | | 4.9 | | * 4.9 | | 4.9 | | 4.9 | | | | |
| Max Green Setting (Gmax), s | | 27.1 | | * 27 | | 27.1 | | 26.1 | | | | |
| Max Q Clear Time (g_c+I1), s | | 11.5 | | 28.5 | | 22.7 | | 27.7 | | | | |
| Green Ext Time (p_c), s | | 1.4 | | 0.0 | | 0.9 | | 0.0 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 6th Ctrl Delay | | | | 52.5 | | | | | | | | |
| HCM 6th LOS | | | | D | | | | | | | | |

LOS Engineering, Inc.

Scenario 2 LOS Worksheets

AM at 36% of SYCPU Horizon Year Volume
 1: E Beyer Blvd/Otay Mesa Rd & Beyer Blvd




















HCM 6th Signalized Intersection Summary

| |  |  |  |  |  |  |  |  |  |  |  |  |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations |  |  | |  |  | |  |  | | |  |  |
| Traffic Volume (veh/h) | 494 | 131 | 173 | 139 | 151 | 38 | 149 | 258 | 125 | 20 | 185 | 377 |
| Future Volume (veh/h) | 494 | 131 | 173 | 139 | 151 | 38 | 149 | 258 | 125 | 20 | 185 | 377 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 0.91 | 1.00 | | 0.93 | 1.00 | | 0.94 | 1.00 | | 0.98 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 537 | 142 | 188 | 151 | 164 | 41 | 162 | 280 | 136 | 22 | 201 | 138 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 607 | 390 | 315 | 182 | 419 | 101 | 492 | 321 | 156 | 25 | 226 | 155 |
| Arrive On Green | 0.18 | 0.22 | 0.22 | 0.10 | 0.15 | 0.15 | 0.28 | 0.28 | 0.28 | 0.23 | 0.23 | 0.23 |
| Sat Flow, veh/h | 3456 | 1777 | 1435 | 1781 | 2795 | 672 | 1781 | 1162 | 565 | 105 | 964 | 662 |
| Grp Volume(v), veh/h | 537 | 142 | 188 | 151 | 102 | 103 | 162 | 0 | 416 | 361 | 0 | 0 |
| Grp Sat Flow(s),veh/h/ln | 1728 | 1777 | 1435 | 1781 | 1777 | 1691 | 1781 | 0 | 1727 | 1731 | 0 | 0 |
| Q Serve(g_s), s | 18.0 | 8.1 | 14.0 | 9.9 | 6.1 | 6.6 | 8.6 | 0.0 | 27.3 | 24.0 | 0.0 | 0.0 |
| Cycle Q Clear(g_c), s | 18.0 | 8.1 | 14.0 | 9.9 | 6.1 | 6.6 | 8.6 | 0.0 | 27.3 | 24.0 | 0.0 | 0.0 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 0.40 | 1.00 | | 0.33 | 0.06 | | 0.38 |
| Lane Grp Cap(c), veh/h | 607 | 390 | 315 | 182 | 266 | 254 | 492 | 0 | 477 | 405 | 0 | 0 |
| V/C Ratio(X) | 0.89 | 0.36 | 0.60 | 0.83 | 0.38 | 0.41 | 0.33 | 0.00 | 0.87 | 0.89 | 0.00 | 0.00 |
| Avail Cap(c_a), veh/h | 701 | 390 | 315 | 390 | 425 | 404 | 603 | 0 | 584 | 478 | 0 | 0 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 0.00 |
| Uniform Delay (d), s/veh | 47.8 | 39.3 | 41.6 | 52.3 | 45.5 | 45.7 | 34.2 | 0.0 | 41.0 | 44.0 | 0.0 | 0.0 |
| Incr Delay (d2), s/veh | 11.8 | 2.6 | 8.1 | 8.8 | 0.9 | 1.0 | 0.7 | 0.0 | 13.4 | 18.2 | 0.0 | 0.0 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh | 87 | 3.8 | 5.6 | 4.8 | 2.8 | 2.8 | 3.7 | 0.0 | 12.9 | 12.0 | 0.0 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 59.6 | 41.9 | 49.7 | 61.0 | 46.4 | 46.7 | 34.9 | 0.0 | 54.4 | 62.2 | 0.0 | 0.0 |
| LnGrp LOS | E | D | D | E | D | D | C | A | D | E | A | A |
| Approach Vol, veh/h | | 867 | | | 356 | | | 578 | | | 361 | |
| Approach Delay, s/veh | | 54.5 | | | 52.7 | | | 48.9 | | | 62.2 | |
| Approach LOS | | D | | | D | | | D | | | E | |
| Timer - Assigned Phs | 1 | 2 | | 4 | 5 | 6 | | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 17.1 | 31.0 | | 33.0 | 25.4 | 22.7 | | 37.7 | | | | |
| Change Period (Y+Rc), s | 4.9 | 4.9 | | 5.2 | 4.5 | 4.9 | | 4.9 | | | | |
| Max Green Setting (Gm), s | 26.1 | | | 32.8 | 24.1 | 28.4 | | 40.2 | | | | |
| Max Q Clear Time (g_c+119), s | 16.0 | | | 26.0 | 20.0 | 8.6 | | 29.3 | | | | |
| Green Ext Time (p_c), s | 0.3 | 1.4 | | 1.7 | 0.8 | 1.0 | | 3.5 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 6th Ctrl Delay | 54.0 | | | | | | | | | | | |
| HCM 6th LOS | D | | | | | | | | | | | |

LOS Engineering, Inc.

PM at 63% of SYCPU Horizon Year Volume
 1: E Beyer Blvd/Otay Mesa Rd & Beyer Blvd

HCM 6th Signalized Intersection Summary

| |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations |  |  | |  |  | |  |  | | |  | |
| Traffic Volume (veh/h) | 156 | 300 | 195 | 520 | 332 | 40 | 103 | 96 | 298 | 112 | 120 | 196 |
| Future Volume (veh/h) | 156 | 300 | 195 | 520 | 332 | 40 | 103 | 96 | 298 | 112 | 120 | 196 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 0.92 | 1.00 | | 0.97 | 1.00 | | 0.94 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 170 | 326 | 212 | 565 | 361 | 43 | 112 | 104 | 324 | 122 | 130 | -59 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 239 | 547 | 344 | 592 | 1717 | 203 | 452 | 96 | 300 | 301 | 320 | 0 |
| Arrive On Green | 0.07 | 0.27 | 0.27 | 0.33 | 0.54 | 0.54 | 0.25 | 0.25 | 0.25 | 0.00 | 0.00 | 0.00 |
| Sat Flow, veh/h | 3456 | 2019 | 1268 | 1781 | 3190 | 377 | 1781 | 380 | 1183 | 1211 | 1290 | -585 |
| Grp Volume(v), veh/h | 170 | 286 | 252 | 565 | 200 | 204 | 112 | 0 | 428 | 0 | 0 | 0 |
| Grp Sat Flow(s),veh/h/ln | 1728 | 1777 | 1511 | 1781 | 1777 | 1790 | 1781 | 0 | 1563 | 0 | 0 | 0 |
| Q Serve(g_s), s | 5.0 | 14.4 | 15.0 | 31.9 | 6.0 | 6.1 | 5.2 | 0.0 | 26.1 | 0.0 | 0.0 | 0.0 |
| Cycle Q Clear(g_c), s | 5.0 | 14.4 | 15.0 | 31.9 | 6.0 | 6.1 | 5.2 | 0.0 | 26.1 | 0.0 | 0.0 | 0.0 |
| Prop In Lane | 1.00 | | 0.84 | 1.00 | | 0.21 | 1.00 | | 0.76 | 0.63 | | -0.31 |
| Lane Grp Cap(c), veh/h | 239 | 482 | 410 | 592 | 956 | 963 | 452 | 0 | 397 | 0 | 0 | 0 |
| V/C Ratio(X) | 0.71 | 0.59 | 0.62 | 0.95 | 0.21 | 0.21 | 0.25 | 0.00 | 1.08 | 0.00 | 0.00 | 0.00 |
| Avail Cap(c_a), veh/h | 410 | 482 | 410 | 608 | 956 | 963 | 452 | 0 | 397 | 0 | 0 | 0 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 |
| Uniform Delay (d), s/veh | 46.9 | 32.6 | 32.8 | 33.6 | 12.4 | 12.4 | 30.6 | 0.0 | 38.4 | 0.0 | 0.0 | 0.0 |
| Incr Delay (d2), s/veh | 3.9 | 5.3 | 6.8 | 25.3 | 0.1 | 0.1 | 0.5 | 0.0 | 68.1 | 0.0 | 0.0 | 0.0 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh | 2 | 6.7 | 6.1 | 17.4 | 2.3 | 2.4 | 2.2 | 0.0 | 16.9 | 0.0 | 0.0 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 50.8 | 37.8 | 39.6 | 58.9 | 12.5 | 12.5 | 31.1 | 0.0 | 106.5 | 0.0 | 0.0 | 0.0 |
| LnGrp LOS | D | D | D | E | B | B | C | A | F | A | A | A |
| Approach Vol, veh/h | | 708 | | | 969 | | | 540 | | | | 0 |
| Approach Delay, s/veh | | 41.6 | | | 39.6 | | | 90.8 | | | | 0.0 |
| Approach LOS | | D | | | D | | | F | | | | |
| Timer - Assigned Phs | 1 | 2 | | 4 | 5 | 6 | | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 35.1 | 32.8 | | 0.0 | 11.6 | 60.3 | | 31.0 | | | | |
| Change Period (Y+Rc), s | 4.9 | 4.9 | | 5.2 | 4.5 | 4.9 | | 4.9 | | | | |
| Max Green Setting (G_max), s | 27.9 | | | 36.0 | 12.2 | 51.2 | | 26.1 | | | | |
| Max Q Clear Time (g_c3), s | 31.9 | 17.0 | | 0.0 | 7.0 | 8.1 | | 28.1 | | | | |
| Green Ext Time (p_c), s | 0.3 | 2.4 | | 0.0 | 0.2 | 2.4 | | 0.0 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 6th Ctrl Delay | 52.7 | | | | | | | | | | | |
| HCM 6th LOS | D | | | | | | | | | | | |

LOS Engineering, Inc.

Scenario 3 LOS Worksheets

From SYCPU. Volumes below are slightly lower than EIR figure (AM Analysis)

San Ysidro CPU-Mobility Element Horizon Year Alternative B with Improvements I-805 Ramps
7: East Beyer Blvd/Otay Mesa Rd & Beyer Blvd 11/21/2014

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------|-------|-------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|
| Lane Configurations | | | | | | | | | | | | |
| Volume (vph) | 557 | 803 | 329 | 856 | 918 | 219 | 452 | 369 | 796 | 135 | 260 | 504 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost time (s) | 4.9 | 4.9 | 4.0 | 4.9 | 4.9 | 4.9 | 4.0 | 4.9 | 4.0 | | 5.2 | 4.9 |
| Lane Util. Factor | 0.97 | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 | 1.00 | 1.00 | 1.00 | | 1.00 | 1.00 |
| Frt | 1.00 | 1.00 | 0.85 | 1.00 | 1.00 | 0.85 | 1.00 | 1.00 | 0.85 | | 1.00 | 0.85 |
| Fit Protected | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 | 1.00 | | 0.98 | 1.00 |
| Satd. Flow (prot) | 3433 | 3539 | 1583 | 1770 | 3539 | 1583 | 1770 | 1863 | 1583 | | 1832 | 1583 |
| Fit Permitted | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 | 1.00 | | 0.72 | 1.00 |
| Satd. Flow (perm) | 3433 | 3539 | 1583 | 1770 | 3539 | 1583 | 1770 | 1863 | 1583 | | 1332 | 1583 |
| Peak-hour factor, PHF | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Growth Factor (vph) | 110% | 110% | 110% | 110% | 110% | 110% | 110% | 110% | 110% | 110% | 110% | 110% |
| Adj. Flow (vph) | 666 | 960 | 393 | 1023 | 1098 | 262 | 540 | 441 | 952 | 161 | 311 | 603 |
| RTOR Reduction (vph) | 0 | 0 | 70 | 0 | 0 | 55 | 0 | 0 | 0 | 0 | 0 | 45 |
| Lane Group Flow (vph) | 666 | 960 | 323 | 1023 | 1098 | 207 | 540 | 441 | 952 | 0 | 472 | 558 |
| Turn Type | Prot | NA | pm+ov | Prot | NA | Perm | Prot | NA | Free | Perm | NA | pm+ov |
| Protected Phases | 5 | 2 | 3 | 1 | 6 | | 3 | 8 | | | 4 | 5 |
| Permitted Phases | | | 2 | | | 6 | | | Free | 4 | | 4 |
| Actuated Green, G (s) | 26.9 | 30.1 | 50.1 | 44.1 | 47.3 | 47.3 | 20.0 | 61.1 | 150.0 | | 36.8 | 63.7 |
| Effective Green, g (s) | 26.9 | 30.1 | 50.1 | 44.1 | 47.3 | 47.3 | 20.0 | 61.1 | 150.0 | | 36.8 | 63.7 |
| Actuated g/C Ratio | 0.18 | 0.20 | 0.33 | 0.29 | 0.32 | 0.32 | 0.13 | 0.41 | 1.00 | | 0.25 | 0.42 |
| Clearance Time (s) | 4.9 | 4.9 | 4.0 | 4.9 | 4.9 | 4.9 | 4.0 | 4.9 | | | 5.2 | 4.9 |
| Vehicle Extension (s) | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | | | 3.0 | 3.0 |
| Lane Grp Cap (vph) | 615 | 710 | 528 | 520 | 1115 | 499 | 236 | 758 | 1583 | | 326 | 672 |
| v/s Ratio Prot | 0.19 | c0.27 | 0.08 | c0.58 | 0.31 | | c0.31 | 0.24 | | | | 0.15 |
| v/s Ratio Perm | | | 0.12 | | | 0.13 | | | 0.60 | | c0.35 | 0.20 |
| v/c Ratio | 1.08 | 1.35 | 0.61 | 1.97 | 0.98 | 0.41 | 2.29 | 0.58 | 0.60 | | 1.45 | 0.83 |
| Uniform Delay, d1 | 61.5 | 59.9 | 41.8 | 53.0 | 51.0 | 40.4 | 65.0 | 34.5 | 0.0 | | 56.6 | 38.3 |
| Progression Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | | 1.00 | 1.00 |
| Incremental Delay, d2 | 60.8 | 167.7 | 2.1 | 442.2 | 23.1 | 0.6 | 592.9 | 1.1 | 1.7 | | 218.0 | 8.4 |
| Delay (s) | 122.3 | 227.6 | 43.9 | 495.2 | 74.1 | 41.0 | 657.9 | 35.7 | 1.7 | | 274.6 | 46.7 |
| Level of Service | F | F | D | F | E | D | F | D | A | | F | D |
| Approach Delay (s) | | 157.1 | | | 251.2 | | | 192.8 | | | 146.8 | |
| Approach LOS | | F | | | F | | | F | | | F | |

| Intersection Summary | | | |
|-----------------------------------|--------|---------------------------|------|
| HCM 2000 Control Delay | 195.2 | HCM 2000 Level of Service | F |
| HCM 2000 Volume to Capacity ratio | 1.73 | | |
| Actuated Cycle Length (s) | 150.0 | Sum of lost time (s) | 19.0 |
| Intersection Capacity Utilization | 144.0% | ICU Level of Service | H |
| Analysis Period (min) | 15 | | |

c Critical Lane Group

From SYCPU. Volumes below are slightly lower than EIR figure (PM Analysis)

San Ysidro CPU-Mobility Element Horizon Year Alternative B with Improvements I-805 Ramp
7: East Beyer Blvd/Otay Mesa Rd & Beyer Blvd 11/21/2014

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|-----------------------------------|------|-------|--------|-------|-------|---------------------------|-------|------|-------|------|-------|-------|
| Lane Configurations | | | | | | | | | | | | |
| Volume (vph) | 79 | 580 | 205 | 1018 | 657 | 79 | 123 | 118 | 586 | 223 | 126 | 116 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost time (s) | 4.9 | 4.9 | 4.0 | 4.9 | 4.9 | 4.9 | 4.0 | 4.9 | 4.0 | | 5.2 | 4.9 |
| Lane Util. Factor | 0.97 | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 | 1.00 | 1.00 | 1.00 | | 1.00 | 1.00 |
| Frt | 1.00 | 1.00 | 0.85 | 1.00 | 1.00 | 0.85 | 1.00 | 1.00 | 0.85 | | 1.00 | 0.85 |
| Flt Protected | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 | 1.00 | | 0.97 | 1.00 |
| Satd. Flow (prot) | 3433 | 3539 | 1583 | 1770 | 3539 | 1583 | 1770 | 1863 | 1583 | | 1805 | 1583 |
| Flt Permitted | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 | 1.00 | | 0.72 | 1.00 |
| Satd. Flow (perm) | 3433 | 3539 | 1583 | 1770 | 3539 | 1583 | 1770 | 1863 | 1583 | | 1348 | 1583 |
| Peak-hour factor, PHF | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Growth Factor (vph) | 110% | 110% | 110% | 110% | 110% | 110% | 110% | 110% | 110% | 110% | 110% | 110% |
| Adj. Flow (vph) | 94 | 693 | 245 | 1217 | 786 | 94 | 147 | 141 | 701 | 267 | 151 | 139 |
| RTOR Reduction (vph) | 0 | 0 | 134 | 0 | 0 | 39 | 0 | 0 | 0 | 0 | 0 | 55 |
| Lane Group Flow (vph) | 94 | 693 | 111 | 1217 | 786 | 55 | 147 | 141 | 701 | 0 | 418 | 84 |
| Turn Type | Prot | NA | pm+ov | Prot | NA | Perm | Prot | NA | Free | Perm | NA | pm+ov |
| Protected Phases | 5 | 2 | 3 | 1 | 6 | | 3 | 8 | | | 4 | 5 |
| Permitted Phases | | | 2 | | | 6 | | | Free | 4 | | 4 |
| Actuated Green, G (s) | 9.5 | 26.1 | 34.1 | 61.1 | 77.7 | 77.7 | 8.0 | 48.1 | 150.0 | | 35.8 | 45.3 |
| Effective Green, g (s) | 9.5 | 26.1 | 34.1 | 61.1 | 77.7 | 77.7 | 8.0 | 48.1 | 150.0 | | 35.8 | 45.3 |
| Actuated g/C Ratio | 0.06 | 0.17 | 0.23 | 0.41 | 0.52 | 0.52 | 0.05 | 0.32 | 1.00 | | 0.24 | 0.30 |
| Clearance Time (s) | 4.9 | 4.9 | 4.0 | 4.9 | 4.9 | 4.9 | 4.0 | 4.9 | | | 5.2 | 4.9 |
| Vehicle Extension (s) | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | | | 3.0 | 3.0 |
| Lane Grp Cap (vph) | 217 | 615 | 359 | 720 | 1833 | 819 | 94 | 597 | 1583 | | 321 | 478 |
| v/s Ratio Prot | 0.03 | c0.20 | 0.02 | c0.69 | 0.22 | | c0.08 | 0.08 | | | | 0.01 |
| v/s Ratio Perm | | | 0.05 | | | 0.03 | | | 0.44 | | c0.31 | 0.04 |
| v/c Ratio | 0.43 | 1.13 | 0.31 | 1.69 | 0.43 | 0.07 | 1.56 | 0.24 | 0.44 | | 1.30 | 0.18 |
| Uniform Delay, d1 | 67.7 | 62.0 | 48.1 | 44.5 | 22.4 | 18.1 | 71.0 | 37.4 | 0.0 | | 57.1 | 38.6 |
| Progression Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | | 1.00 | 1.00 |
| Incremental Delay, d2 | 1.4 | 76.5 | 0.5 | 316.6 | 0.2 | 0.0 | 298.8 | 0.2 | 0.9 | | 156.9 | 0.2 |
| Delay (s) | 69.0 | 138.4 | 48.6 | 361.1 | 22.6 | 18.1 | 369.8 | 37.7 | 0.9 | | 214.0 | 38.8 |
| Level of Service | E | F | D | F | C | B | F | D | A | | F | D |
| Approach Delay (s) | | 110.8 | | | 218.8 | | | 61.0 | | | 170.3 | |
| Approach LOS | | F | | | F | | | E | | | F | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 2000 Control Delay | | | 155.8 | | | HCM 2000 Level of Service | | | F | | | |
| HCM 2000 Volume to Capacity ratio | | | 1.46 | | | | | | | | | |
| Actuated Cycle Length (s) | | | 150.0 | | | Sum of lost time (s) | | | 19.0 | | | |
| Intersection Capacity Utilization | | | 124.6% | | | ICU Level of Service | | | H | | | |
| Analysis Period (min) | | | 15 | | | | | | | | | |

c Critical Lane Group

Table 6-1 Post Mitigation Summary of Intersection Analysis

| INTERSECTION | PEAK HOUR | PREFERRED LAND USE ALTERNATIVE | | | WITH IMPROVEMENTS | | | Δ | SIGNIFICANT? |
|---|-----------|--------------------------------|-----------|---------|-------------------|-----------|---------|--------|--------------|
| | | TRAFFIC CONTROL | DELAY (s) | LOS (b) | TRAFFIC CONTROL | DELAY (s) | LOS (b) | | |
| 1 Beyer Blvd & Iris Ave SR-905 WB Ramps | AM | Signal | 32.7 | C | Signal | 22.1 | C | -10.6 | NO |
| | PM | | 117.0 | F | | 54.9 | D | -62.1 | NO |
| 2 Beyer Blvd & Dairy Mart Rd SR-905 Ramps | AM | Signal | 79.7 | E | Signal | 25.9 | C | -53.8 | NO |
| | PM | | 44.6 | D | | 41.3 | D | -3.3 | NO |
| 4 Smythe Crossing & Beyer Blvd | AM | One-Way Stop | 13.8 | B | Signal | 10.5 | B | -3.3 | NO |
| | PM | | ECL | F | | 6.6 | A | - | NO |
| 5 Beyer Blvd & Smythe Ave | AM | Signal | ECL | F | Signal | 54.9 | D | - | NO |
| | PM | | 38.5 | D | | 17.3 | B | -21.2 | NO |
| 6 W. Park Ave/Alaquinas Dr & Beyer Blvd | AM | Signal | 160.6 | F | Signal | 51.0 | D | -109.6 | NO |
| | PM | | 20.7 | C | | 15.3 | B | -5.4 | NO |
| 7 East Beyer Blvd/Otay Mesa Rd & Beyer Blvd | AM | Signal | ECL | F | Signal (c) | 195.2 | F | - | NO |
| | PM | | ECL | F | | 155.8 | F | - | NO |

Notes:

Bold values indicate intersections operating at LOS E or F.

ECL = Exceeds Calculable Limit. Reported when delay exceeds 180 seconds.

Shaded cells indicate roadway segment improvements identified in the San Ysidro Impact Study Fee (ISF)

(a) Delay refers to the average control delay for the entire intersection, measured in seconds per vehicle. At a two-way stop-controlled intersection, delay refers to the worst movement.

(b) LOS calculations are based on the methodology outlined in the 2000 Highway Capacity Manual and performed using Synchro 8

(c) With Otay Mesa Community Plan Improvements

(d) The construction of the new roundabout, new connection between Calle Primera en Camino de la Plaza, and traffic calming measures along Willow Road will degongest the area.

The saturation flow rate at the intersection of Camino de la Plaza and I-5 Southbound Ramps was adjusted to replicate existing conditions when the I-5 Southbound inspection lane is open entering Mexico.

\\santj01\ca_and\1\5ND_TPT0095413002\Excel\413002\04-Alt-B-stan\2015 ALT.B WITH IMP 905 Ramp

Intersections

Implementation of the improvements identified in Tables 5.2-13 and 5.2-15 of the Final PEIR would reduce impacts of the SYCPU on local intersections. Improvements within Tables 5.2-13 are included in the IFS, and will be implemented based on funding generated by development fees. Other improvements are identified in Tables 5.2-15. However, no identified funding sources exist because they are not included in the IFS. While implementation of the improvements identified in Tables 5.2-13 and 5.2-15 would reduce impacts on roadway segments to acceptable levels, the City cannot assure that these improvements would be implemented. Insufficient right-of-way is likely to exist to accommodate Mitigation Measure 55, and Mitigation Measure TRF-56 is not considered consistent with the mobility goals. Thus, the impact of the SYCPU with respect to intersections is considered unavoidable.

**TABLE 5.2-15
INTERSECTION IMPROVEMENTS
(Not Included In Impact Fee Study)**

























| Mitigation Measure Number | Intersection Number | Intersection | Improvement |
|---------------------------|---------------------|--|--|
| TRF-55 | 7 | East Beyer Blvd/Otay Mesa Road and Beyer Boulevard | Install 4-lane major arterial with exclusive left- and right-turn lanes on east leg of the intersection. |

Scenario 4 LOS Worksheets

AM Horizon Year

1: E Beyer Blvd/Otay Mesa Rd & Beyer Blvd

HCM 6th Signalized Intersection Summary

| |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations |  |  |  |  |  |  |  |  |  |  |  |  |
| Traffic Volume (veh/h) | 564 | 802 | 340 | 866 | 920 | 218 | 466 | 372 | 808 | 133 | 265 | 508 |
| Future Volume (veh/h) | 564 | 802 | 340 | 866 | 920 | 218 | 466 | 372 | 808 | 133 | 265 | 508 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 0.92 | 1.00 | | 0.96 | 1.00 | | 0.88 | 1.00 | | 0.96 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 613 | 872 | 370 | 941 | 1000 | 237 | 507 | 404 | 878 | 145 | 288 | 280 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 688 | 952 | 1167 | 893 | 1174 | 665 | 595 | 745 | 1234 | 181 | 502 | 934 |
| Arrive On Green | 0.20 | 0.27 | 0.27 | 0.26 | 0.33 | 0.33 | 0.17 | 0.21 | 0.21 | 0.10 | 0.14 | 0.14 |
| Sat Flow, veh/h | 3456 | 3554 | 2562 | 3456 | 3554 | 1525 | 3456 | 3554 | 2446 | 1781 | 3554 | 2678 |
| Grp Volume(v), veh/h | 613 | 872 | 370 | 941 | 1000 | 237 | 507 | 404 | 878 | 145 | 288 | 280 |
| Grp Sat Flow(s),veh/h/ln | 1728 | 1777 | 1281 | 1728 | 1777 | 1525 | 1728 | 1777 | 1223 | 1781 | 1777 | 1339 |
| Q Serve(g_s), s | 21.5 | 29.6 | 11.7 | 32.1 | 32.6 | 13.0 | 17.7 | 12.6 | 26.0 | 9.9 | 9.4 | 9.6 |
| Cycle Q Clear(g_c), s | 21.5 | 29.6 | 11.7 | 32.1 | 32.6 | 13.0 | 17.7 | 12.6 | 26.0 | 9.9 | 9.4 | 9.6 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 688 | 952 | 1167 | 893 | 1174 | 665 | 595 | 745 | 1234 | 181 | 502 | 934 |
| V/C Ratio(X) | 0.89 | 0.92 | 0.32 | 1.05 | 0.85 | 0.36 | 0.85 | 0.54 | 0.71 | 0.80 | 0.57 | 0.30 |
| Avail Cap(c_a), veh/h | 826 | 952 | 1167 | 893 | 1174 | 665 | 718 | 745 | 1234 | 483 | 970 | 1286 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 48.4 | 44.1 | 22.8 | 46.1 | 38.7 | 23.7 | 49.9 | 43.8 | 27.3 | 54.6 | 49.8 | 30.2 |
| Incr Delay (d2), s/veh | 10.5 | 14.8 | 0.7 | 45.3 | 6.1 | 0.3 | 9.7 | 1.2 | 2.3 | 13.1 | 1.8 | 0.3 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 10.0 | 14.5 | 3.5 | 19.2 | 14.9 | 4.6 | 8.2 | 5.5 | 10.4 | 5.0 | 4.2 | 3.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 58.9 | 58.9 | 23.5 | 91.4 | 44.9 | 24.1 | 59.6 | 45.0 | 29.5 | 67.7 | 51.6 | 30.5 |
| LnGrp LOS | E | E | C | F | D | C | E | D | C | E | D | C |
| Approach Vol, veh/h | | 1855 | | | 2178 | | | 1789 | | | 713 | |
| Approach Delay, s/veh | | 51.8 | | | 62.7 | | | 41.5 | | | 46.6 | |
| Approach LOS | | D | | | E | | | D | | | D | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G + Y + Rc), s | 37.0 | 38.2 | 26.3 | 22.8 | 29.2 | 46.0 | 17.8 | 31.2 | | | | |
| Change Period (Y + Rc), s | 4.9 | 4.9 | 4.9 | 5.2 | 4.5 | 4.9 | 5.2 | * 5.2 | | | | |
| Max Green Setting (Gmax), s | 32.1 | 33.3 | 25.8 | 33.9 | 29.7 | 36.1 | 33.7 | * 26 | | | | |
| Max Q Clear Time (g_c + I1), s | 34.1 | 31.6 | 19.7 | 11.6 | 23.5 | 34.6 | 11.9 | 28.0 | | | | |
| Green Ext Time (p_c), s | 0.0 | 1.1 | 1.7 | 4.8 | 1.3 | 1.1 | 0.7 | 0.0 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 6th Ctrl Delay | | | 52.1 | | | | | | | | | |
| HCM 6th LOS | | | D | | | | | | | | | |

LOS Engineering, Inc.

PM Horizon Year

1: E Beyer Blvd/Otay Mesa Rd & Beyer Blvd

HCM 6th Signalized Intersection Summary

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|--------------------------------|------|------|------|------|------|------|------|-------|------|------|-------|-------|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 79 | 582 | 212 | 1030 | 657 | 78 | 130 | 121 | 591 | 222 | 130 | 116 |
| Future Volume (veh/h) | 79 | 582 | 212 | 1030 | 657 | 78 | 130 | 121 | 591 | 222 | 130 | 116 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 0.90 | 1.00 | | 0.97 | 1.00 | | 0.86 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 86 | 633 | 230 | 1120 | 714 | 85 | 141 | 132 | 642 | 241 | 141 | -146 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 133 | 719 | 668 | 1157 | 1781 | 1013 | 200 | 621 | 1351 | 272 | 965 | 865 |
| Arrive On Green | 0.04 | 0.20 | 0.20 | 0.33 | 0.50 | 0.50 | 0.06 | 0.17 | 0.17 | 0.15 | 0.27 | 0.00 |
| Sat Flow, veh/h | 3456 | 3554 | 2507 | 3456 | 3554 | 1539 | 3456 | 3554 | 2389 | 1781 | 3554 | 2790 |
| Grp Volume(v), veh/h | 86 | 633 | 230 | 1120 | 714 | 85 | 141 | 132 | 642 | 241 | 141 | -146 |
| Grp Sat Flow(s),veh/h/ln | 1728 | 1777 | 1253 | 1728 | 1777 | 1539 | 1728 | 1777 | 1194 | 1781 | 1777 | 1395 |
| Q Serve(g_s), s | 3.7 | 25.7 | 11.1 | 47.5 | 18.7 | 3.0 | 6.0 | 4.7 | 26.0 | 19.7 | 4.5 | 0.0 |
| Cycle Q Clear(g_c), s | 3.7 | 25.7 | 11.1 | 47.5 | 18.7 | 3.0 | 6.0 | 4.7 | 26.0 | 19.7 | 4.5 | 0.0 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 133 | 719 | 668 | 1157 | 1781 | 1013 | 200 | 621 | 1351 | 272 | 965 | 865 |
| V/C Ratio(X) | 0.65 | 0.88 | 0.34 | 0.97 | 0.40 | 0.08 | 0.71 | 0.21 | 0.48 | 0.89 | 0.15 | -0.17 |
| Avail Cap(c_a), veh/h | 708 | 719 | 668 | 1163 | 1781 | 1013 | 536 | 621 | 1351 | 406 | 965 | 865 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh | 70.6 | 57.6 | 44.9 | 48.7 | 23.2 | 9.4 | 68.9 | 52.7 | 24.5 | 61.8 | 41.1 | 0.0 |
| Incr Delay (d2), s/veh | 5.2 | 14.6 | 1.4 | 19.1 | 0.1 | 0.0 | 7.6 | 0.3 | 0.4 | 18.5 | 0.1 | 0.0 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 1.7 | 12.8 | 3.6 | 22.9 | 7.7 | 1.0 | 2.8 | 2.1 | 7.4 | 10.2 | 2.0 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 75.8 | 72.2 | 46.3 | 67.9 | 23.3 | 9.5 | 76.5 | 52.9 | 24.9 | 80.2 | 41.2 | 0.0 |
| LnGrp LOS | E | E | D | E | C | A | E | D | C | F | D | A |
| Approach Vol, veh/h | | 949 | | | 1919 | | | 915 | | | 236 | |
| Approach Delay, s/veh | | 66.2 | | | 48.7 | | | 36.9 | | | 106.6 | |
| Approach LOS | | E | | | D | | | D | | | F | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G + Y + Rc), s | 54.7 | 35.0 | 13.5 | 45.6 | 10.2 | 79.5 | 27.9 | 31.2 | | | | |
| Change Period (Y + Rc), s | 4.9 | 4.9 | 4.9 | 5.2 | 4.5 | 4.9 | 5.2 | * 5.2 | | | | |
| Max Green Setting (Gmax), s | 50.1 | 30.1 | 23.1 | 36.8 | 30.5 | 50.1 | 33.9 | * 26 | | | | |
| Max Q Clear Time (g_c + I1), s | 49.5 | 27.7 | 8.0 | 6.5 | 5.7 | 20.7 | 21.7 | 28.0 | | | | |
| Green Ext Time (p_c), s | 0.3 | 1.1 | 0.6 | 1.3 | 0.2 | 4.9 | 1.0 | 0.0 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 6th Ctrl Delay | | | 53.6 | | | | | | | | | |
| HCM 6th LOS | | | D | | | | | | | | | |

LOS Engineering, Inc.

Attachment C

Excerpts from the San Ysidro Community Plan Update



San Ysidro

COMMUNITY PLAN AND LOCAL COASTAL PROGRAM LAND USE PLAN

Adopted: November, 2016. Amended: October, 2017



Figure 3-15: Existing 2012 Functional Street Classification

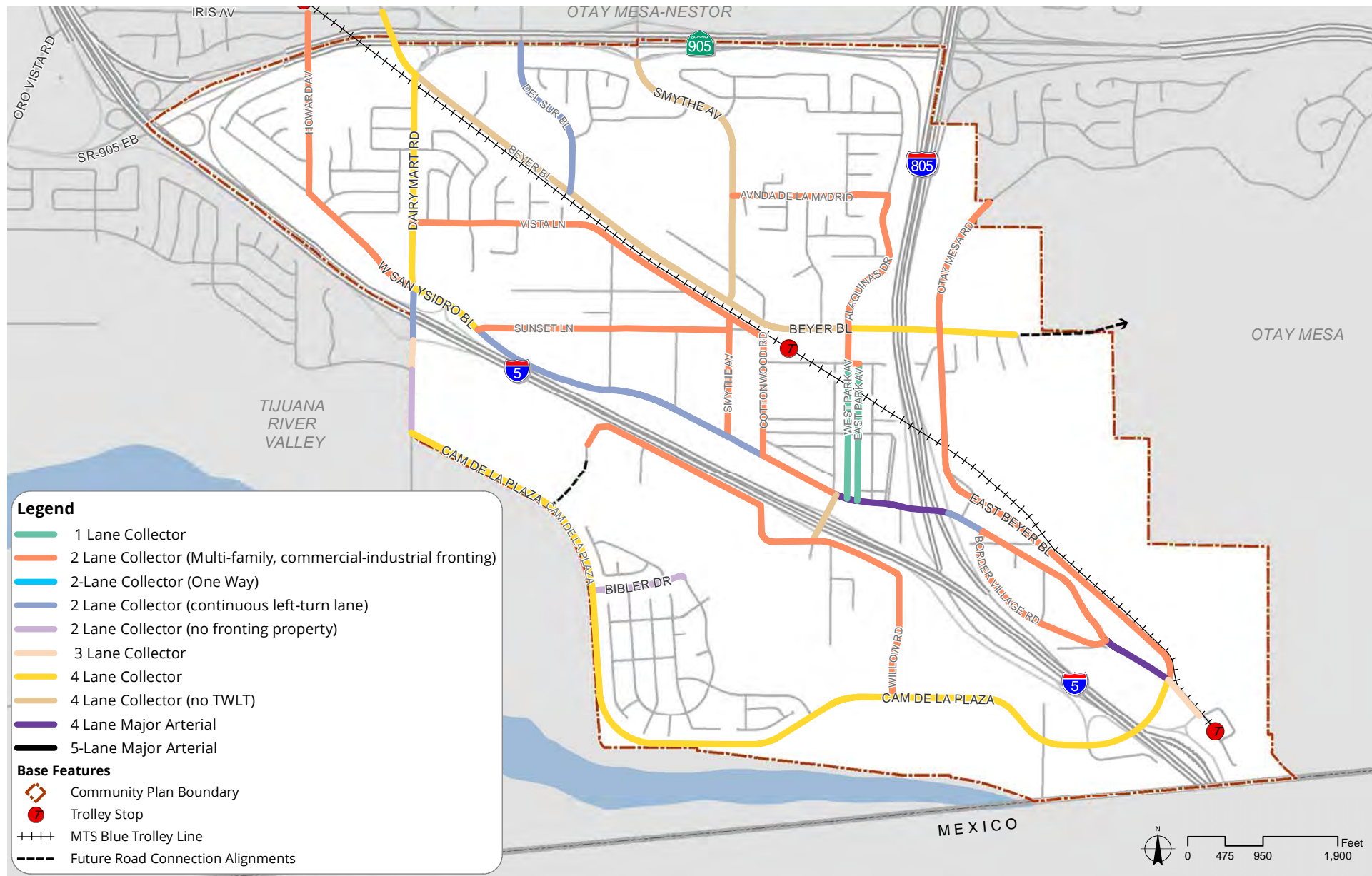
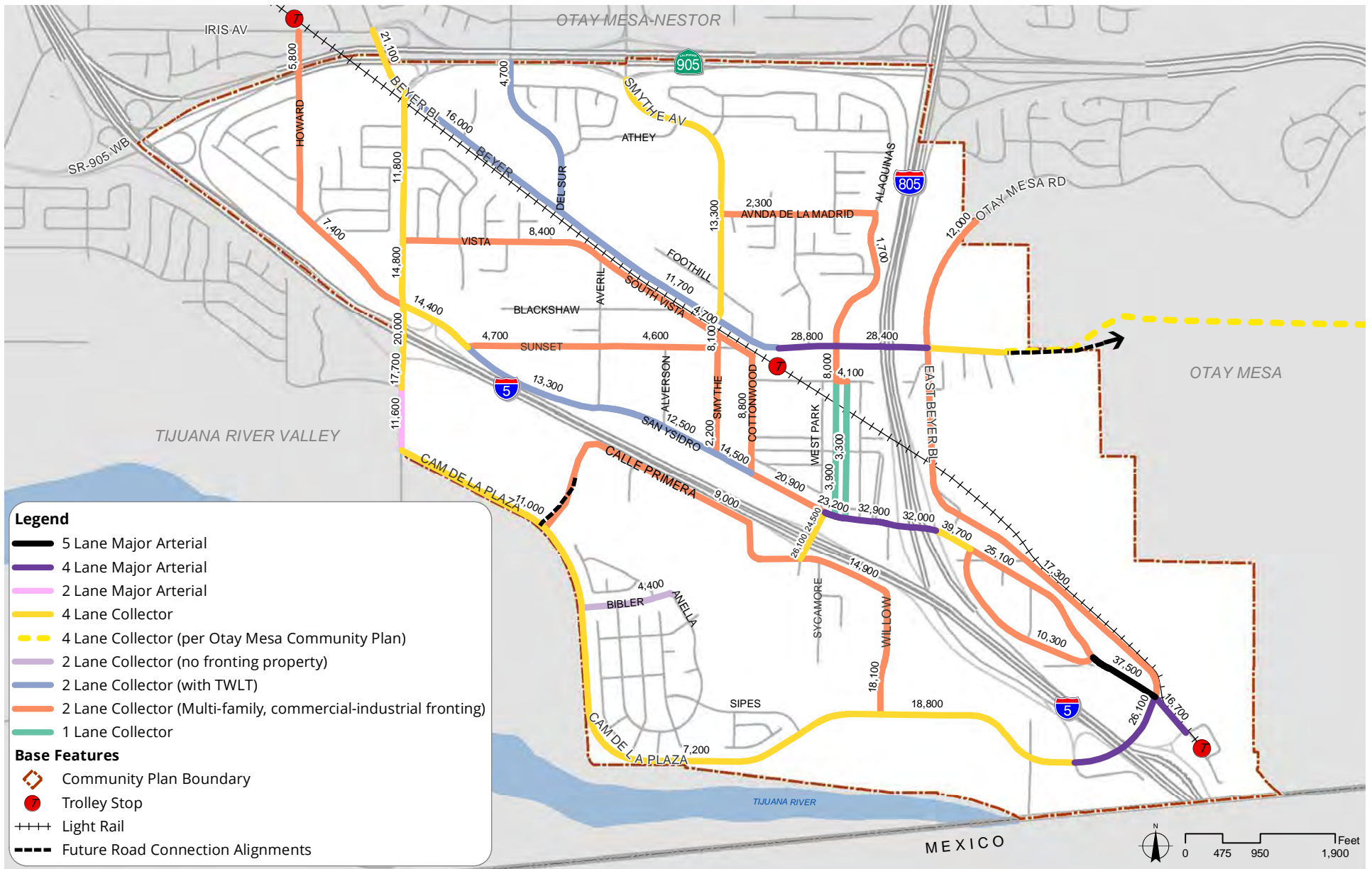


Figure 3-16: Future Planned Street Classifications and Daily Traffic



Attachment D

SANDAG Series 13 Select Zone Assignment for SWV

SANDAG
Series13

Regional Model
Year 2012

Otay Mesa

Select Zone Run
TAZ 4948

Version 13.3.3
Scenario ID1315

join

ifc

10
1; 2; 3; 4; 5; 6; 7; 8; 9

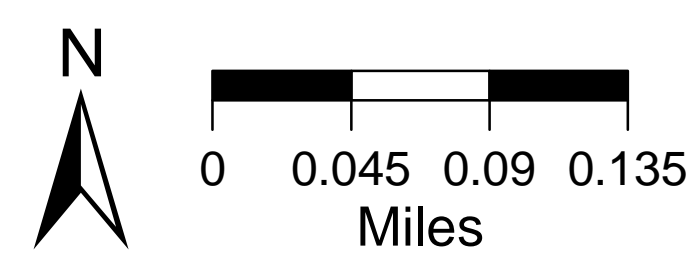
Selected Zone(s)

Select Zone Vol and %

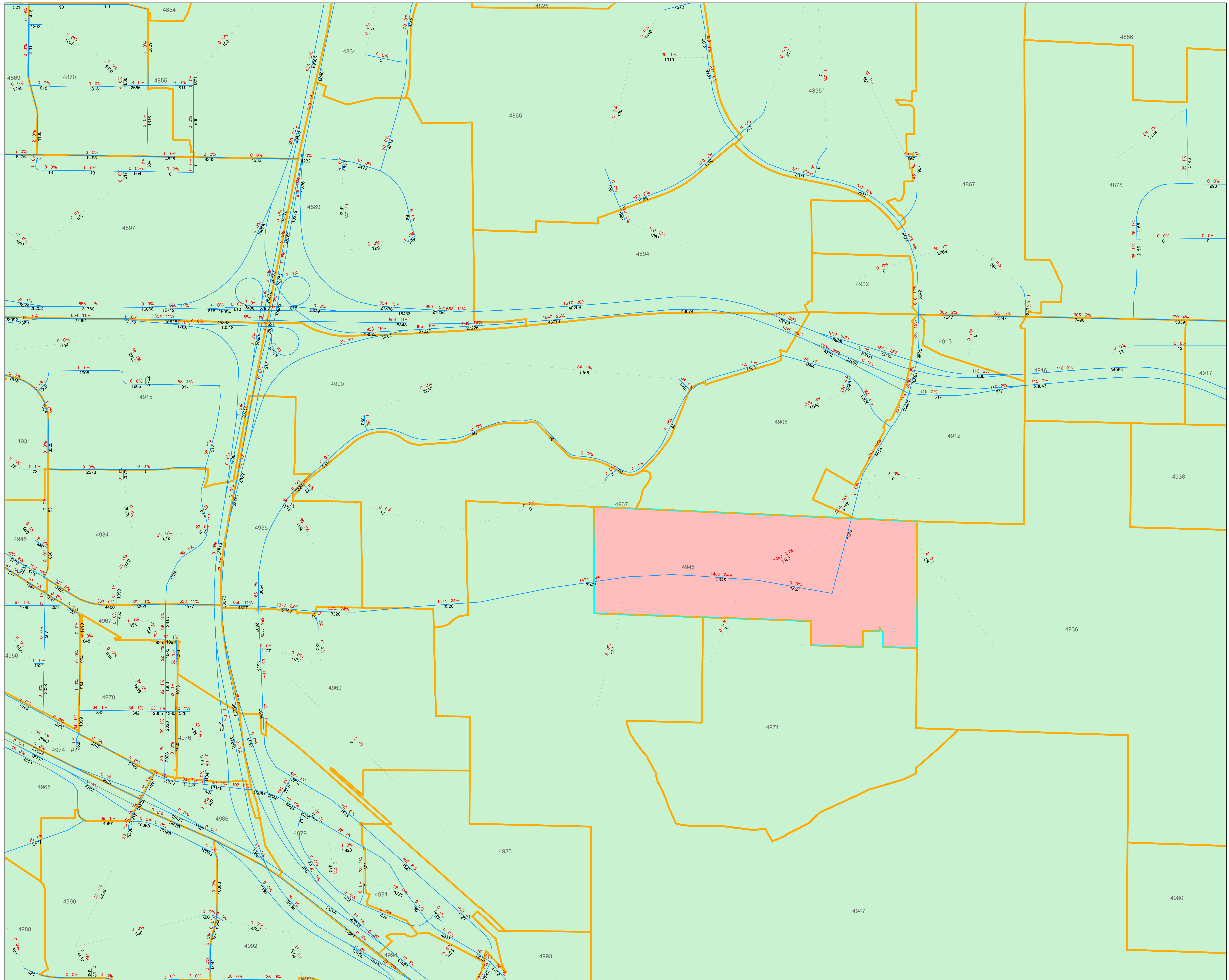
Model Estimated ADT

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SAN DIEGO ASSOCIATION OF GOVERNMENTS
401 B STREET, SUITE 800
SAN DIEGO, CALIFORNIA 92101 USA
(619) 599-1000
E-mail: sandag@sandag.org
Web site: www.sandag.org



Date: July 2, 2021



Attachment E

Specific Plan Planning Area Phasing Details

Table 7.2 – Phasing Summary

| PHASE / TARGET LAND USE ASSUMPTIONS | ON-SITE IMPROVEMENTS | OFF-SITE IMPROVEMENTS |
|---|---|--|
| Phase 1 | | |
| <p>Planning Areas</p> <ul style="list-style-type: none"> • 8, 9, 10, 11, 12, 13, 14 <p>1,315 Maximum Residential Units:</p> <ul style="list-style-type: none"> • 282 Multifamily Residential (20-44 du/ac) • 490 Multifamily Residential (15-29 du/ac) • 543 Single Family Residential (8-22 du/ac) | <p><u>Mobility Network. The following shall be constructed:</u></p> <ul style="list-style-type: none"> • Beyer Boulevard West (from West Avenue to the western Specific Plan boundary) would be required to <u>shall</u> be constructed at the 700th dwelling unit prior to the 700th dwelling unit or earlier in Phase 1 way. • Beyer Boulevard East (from Caliente Avenue to West Avenue, northern half of the street) • Central Avenue (from Caliente Avenue to Beyer Blvd <u>Boulevard</u>) • Street A (from western cul-de sac to West Avenue <u>ue</u>) • West Avenue (western half of the street from Beyer Blvd <u>Boulevard</u> to Street B <u>and</u> full width south of Street B) • Beyer Boulevard Blvd / Central Avenue Intersection (interim conditions per Southwest Village Specific Plan Transportation Phasing Plan (Appendix FE)) • T-intersection at Caliente Avenue <u>ue</u>/Central Avenue <u>ue</u> • Secondary Emergency Vehicle Access Road (<u>shall be</u> constructed at the 201st dwelling unit) <p><u>Parks and Trails. The following shall be constructed:</u></p> <ul style="list-style-type: none"> • Planning Area 8 Pocket Park: HH • Planning Area 9 Pocket Park: II • Planning Area 10 Pocket Parks: AA, BB, CC, and DD • Planning Area 10 Paseos • Planning Area 11 Pocket Parks: MM and OO • Planning Area 12 Pocket Parks: SS, XX • Planning Area 12 Paseos • Planning Area 13 Pocket Parks: PP, RR • Planning Area 13 Paseos • Planning Area 14 Pocket Parks: YY • Planning Area 14 Paseos • Multi-use Perimeter Trail and trail amenities (Specific Plan area entrance at Caliente Avenue to the eastern boundary of Planning Area 14) • Primitive Trails Type A that connect to <u>Planning Areas</u> 12 and 14 (including the closure of non-conforming trails adjacent to these trails) <p><u>Other Infrastructure. The following shall be constructed:</u></p> <ul style="list-style-type: none"> • Landscape infrastructure in Planning Areas 8 - 14 • 16-inch water line backbone loop along Central Avenue, Beyer Boulevard between Central Avenue and West Avenue, and along West Avenue • 18-inch gravity sewer line along Beyer Boulevard and West Avenue. Eight-inch gravity sewer along Street A in Planning Areas 11-14 | <p><u>Mobility Network. The following shall be constructed:</u></p> <ul style="list-style-type: none"> • Beyer Boulevard from from the project Specific Plan boundary to current terminus in San Ysidro at Enright Drive will shall be required to be constructed at the 700th dwelling unit prior to the 700th dwelling unit or earlier in Phase 1 • Intersection of Caliente Avenue at SR- 905 WB westbound ramp: re-stripe the northbound single left turn lane into a dual left turn lane, upgrade the traffic controller, and construct a second receiving lane to the westbound on-ramp • Intersection of Caliente Avenue at SR- 905 eastbound <u>EB</u> ramp: upgrade traffic controller • Intersection of Caliente Avenue <u>ue</u>/Ocean View Hills/Otay Mesa <u>Road</u>: upgrade traffic controller • Intersection of Caliente Avenue <u>ue</u>/Airway <u>Road</u>: upgrade traffic controller • Caliente Avenue <u>ue</u> from the existing southern terminus to Central Avenue <u>ue</u> • Secondary Emergency Vehicle Access Road, from the Specific Plan project boundary to Rail Court to the southwest, will be required to be constructed at the 201st dwelling unit <p><u>Park and Trails. The following shall be constructed:</u></p> <ul style="list-style-type: none"> • Primitive Trails Type A |

| PHASE / TARGET LAND USE ASSUMPTIONS | ON-SITE IMPROVEMENTS | OFF-SITE IMPROVEMENTS |
|--|---|--|
| Phase 2 | | |
| <p>Planning Areas</p> <ul style="list-style-type: none"> • 15, 16, 17, 18, 19, 20 <p>988 Residential Units:</p> <ul style="list-style-type: none"> • 237 Multifamily Residential (15-29 du/ac) • 136¹ Contingency Multifamily Residential in <u>Planning Area 16</u> (15-29 du/ac) • 615 Single Family Residential (8-22 du/ac) | <p><u>Mobility Network. The following shall be constructed:</u></p> <ul style="list-style-type: none"> • Caliente Avenue from Central Avenue to Beyer Boulevard • Caliente Avenue / Beyer Boulevard Intersection • S-South-Caliente Avenue (full-width north of Beyer Boulevard and south of Street B) • South S-Caliente Avenue (eastern half of the street from Beyer Boulevard to Street B) • Street B (full-width east of South- Caliente Avenue) • Street B (southern half of the street from West Avenue to South- Caliente Avenue) • Street C (all segments) • Street D (all segments) • East Avenue (all segments) <p><u>Parks and Trails. The following shall be constructed:</u></p> <ul style="list-style-type: none"> • Neighborhood Park in Planning Area 17 • Paseo along Street C (from West Avenue to East Avenue) • <u>Paseo between Planning Area 19 and 20</u> • Multi-use Perimeter Trail (Terminus of Phase 1 to northern boundary of Planning Area 19) • Public multi-use Perimeter Trail in Planning Areas 15, 18, and 19 • <u>Public mini/pocket parks in Planning Areas 19 and 20</u> • <u>Perimeter Trail in Planning Area 20</u> • Primitive Trails Type A that connect to <u>Planning Areas PA 15 and 18</u> (including the closure of non-conforming trails adjacent to these trails) <p><u>Other Infrastructure. The following shall be constructed:</u></p> <ul style="list-style-type: none"> • Landscape infrastructure in Planning Areas 15 - 20 • Southwest Village Elementary School (1) (Planning Area 16) • Sewer Lift Pump Station east of Street D | <p><u>Other Infrastructure. The following shall be constructed:</u></p> <ul style="list-style-type: none"> • A 16-inch water line in Otay Mesa Road and Beyer Boulevard between Enright Drive and Princess Park Pump Station. • A conditional assessment report to determine the required upgrades improvements at existing the Princess Park Pump Station to become operational provide a redundant water supply. • Upsize the existing 12-inch² gravity sewer to 27 inches² in East- Beyer Boulevard between Beyer Boulevard and trolley tracks<u>the rail right-of-way.</u> • Upsize the existing 18-inch² gravity sewer to 33 inches² in East- Beyer Boulevard and Center Street between Hill Street and East- San Ysidro Boulevard. |

1. ~~In the unlikely event~~ if the SYSD determines that a school is no longer needed on Planning Area 16, the site will default to Medium Density Residential use. Although the contingency for Planning Area 16 would result in approximately 136 additional dwelling units, the maximum dwelling unit cap of 5,130 units would still apply.

| PHASE / TARGET LAND USE ASSUMPTIONS | ON-SITE IMPROVEMENTS | OFF-SITE IMPROVEMENTS |
|---|--|---|
| Phase 3 | | |
| <p>Planning Areas</p> <ul style="list-style-type: none"> • 4, 5 <p>819 Multifamily Residential (15-29 du/ac) units</p> | <p><u>Mobility Network. The following shall be constructed:</u></p> <ul style="list-style-type: none"> • 1st Avenue • Spine Road • Central Avenue (Caliente Avenue to 1st Avenue) <p><u>Parks and Trails. The following shall be constructed:</u></p> <ul style="list-style-type: none"> • Public mini/pocket parks in Planning Area 5 • Public multi-use Pathway (internal to <u>Planning Area 5</u>) • Public multi-use Perimeter Trail (Planning Area 5) • Paseo <p><u>Other Infrastructure. The following shall be constructed:</u></p> <ul style="list-style-type: none"> • Landscape infrastructure in Planning Areas 4 and 5 • 12-inch sewer force main along Spine Road • 10-inch gravity sewer line along Caliente Avenue from <u>the</u> terminus to Beyer Boulevard • Sewer Lift Station | |
| Phase 4 | | |
| <p>Planning Areas: 1, 2, 3, 6, 7</p> <p>424 <u>384</u> Multifamily Residential (15-29 du/ac) units</p> | <p><u>Parks and Trails. The following shall be constructed:</u></p> <ul style="list-style-type: none"> • Public multi-use Perimeter Trail in Planning Area 6 <u>and 7</u> • Public neighborhood park in Planning Area 2 <u>and 3</u> <p><u>Other Infrastructure. The following shall be constructed:</u></p> <ul style="list-style-type: none"> • Landscape infrastructure in Planning Areas 1, 2, 3, 6, and 7 • [Water/sewer improvements <u>to be determined</u> FBD] | <p><u>Mobility Network. The following shall be constructed:</u></p> <ul style="list-style-type: none"> • Improve Beyer Blvd <u>Boulevard</u> between East Beyer Blvd <u>Boulevard</u> and Enright Drive to a Modified 4-Lane Urban Collector with buffered Class II bike lanes prior to the 3,301st <u>3,298th</u> dwelling unit. <p><u>Parks and Trails. The following shall be constructed:</u></p> <ul style="list-style-type: none"> • Eastern Quadrant Trails – Segment number <u>(s) to be determined</u> <p><u>Other Infrastructure. The following shall be constructed:</u></p> <ul style="list-style-type: none"> • Upsize existing 10-<u>inch</u>² gravity sewer to 15 <u>inches</u>² in Beyer Boulevard between Enright Drive and East Beyer Boulevard. |

| PHASE / TARGET LAND USE ASSUMPTIONS | ON-SITE IMPROVEMENTS | OFF-SITE IMPROVEMENTS |
|--|---|---|
| Phase 5 | | |
| Planning Areas: 21 266-306 Multifamily Residential (8-22 du/ac) units | <u>Parks and Trails. The following shall be constructed:</u> <ul style="list-style-type: none"> • Paseo (bike/pedestrian connection- South- Caliente Avenue to East Avenue) • Public mini/pocket parks in Planning Area 21 <u>Other Infrastructure. The following shall be constructed:</u> <ul style="list-style-type: none"> • Landscape infrastructure in Planning Area 21 • [Water/sewer improvements <u>to be determined</u>FBD] | |
| Phase 6 | | |
| Planning Areas: 22 267 Multifamily Residential (15-29 du/ac) units | <u>Mobility Network. The following shall be constructed:</u> <ul style="list-style-type: none"> • Emergency Vehicle Access Road from South- Caliente Avenue to East Avenue <u>Parks and Trails. The following shall be constructed:</u> <ul style="list-style-type: none"> • Public pocket park(s) in Planning Area 22 <u>Other Infrastructure. The following shall be constructed:</u> <ul style="list-style-type: none"> • Landscape infrastructure in Planning Area 22 • [Water/sewer improvements <u>to be determined</u>FBD] | |
| Phase 7 | | |
| Planning Areas: 24, 25, 26, 27 1,187 Multifamily Residential (30-62 du/ac) units 175,000 square feet <u>of commercial uses</u> | <u>Mobility Network. The following shall be constructed:</u> <ul style="list-style-type: none"> • Central Ave from Beyer Boulevard East to Street B • Street A from West Avenue to South- Caliente Avenue • Beyer Boulevard (southern half of the street from West Avenue to South- Caliente Avenue) • West Avenue (eastern half of the street from Beyer Boulevard to Street B) • Street B (northern half of the street) • South- Caliente Avenue (western half of the street from Beyer Boulevard East to Street B) <u>Parks and Trails. The following shall be constructed:</u> <ul style="list-style-type: none"> • Pocket parks and urban plazas in the Village Core (Planning Areas 24 - 27) <u>Other Infrastructure. The following shall be constructed:</u> <ul style="list-style-type: none"> • Landscape infrastructure in Planning Areas 24 - 27 • Mobility hub with public transit stop | <u>Other Infrastructure. The following shall be constructed:</u> <ul style="list-style-type: none"> • Upsize the existing 15-inch² gravity sewer to 27 inches² in East- Beyer Boulevard between the trolley tracks<u>rail right-of-way</u> and Hill Street. • Perform efficiency testing at Ocean View Hills Pump Station. |
| Total Dwelling Units: 5,130 Commercial Square Footage: 175,000 | | |

Figure 7.1 – Phasing

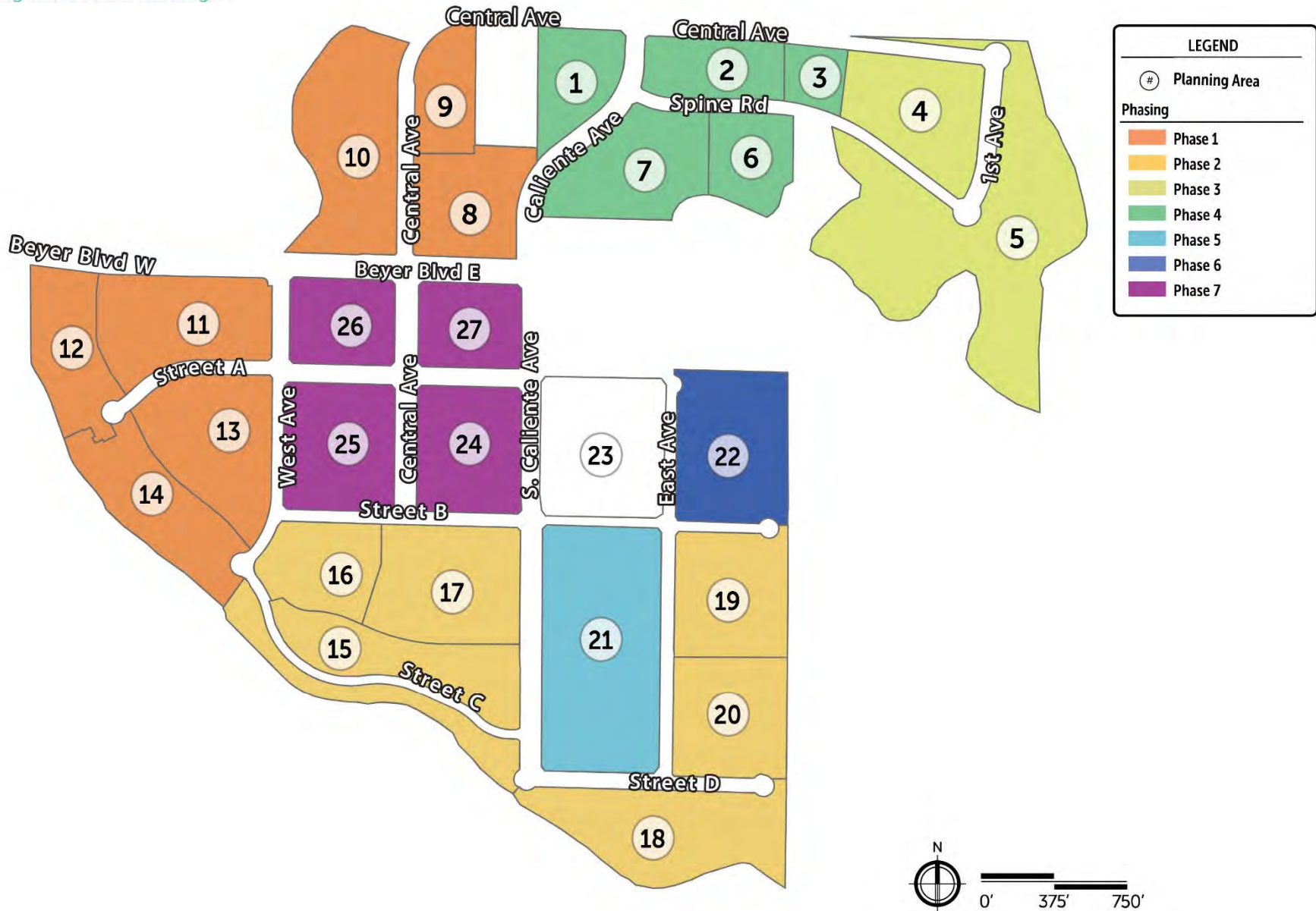
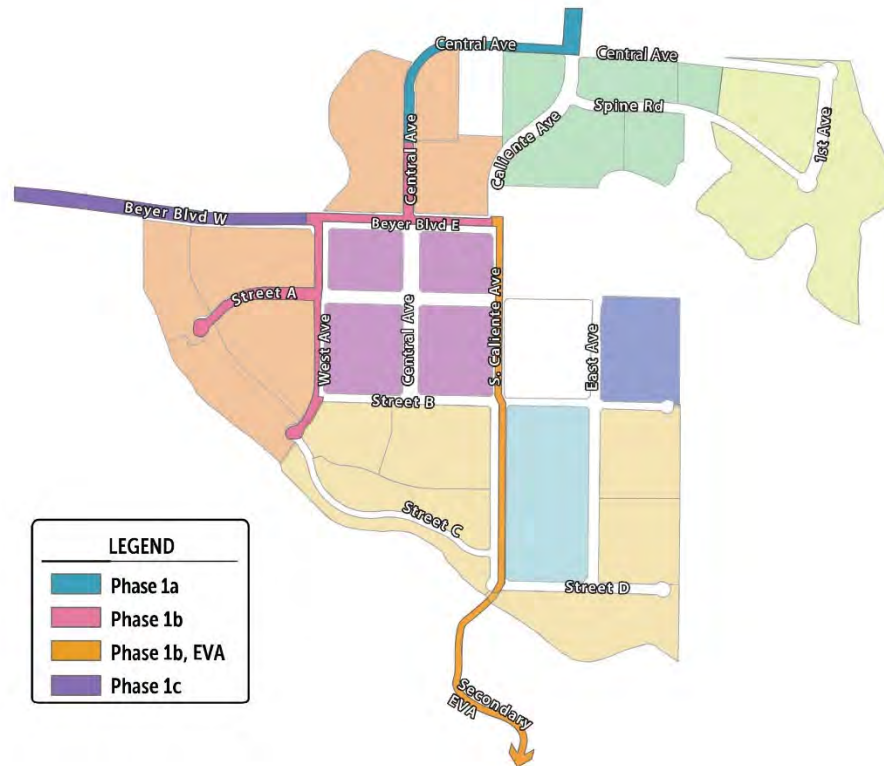


Figure 7.2 – Phase 1 Roadways



Note: Phase 1b, Secondary Emergency Vehicle Access Road at the eastern terminus of East Beyer Boulevard and the future South Caliente Avenue intersection, extending south to Rail Court, as shown, will be implemented at the 201st dwelling unit. Refer to Section 7.9, Supplemental Development Regulations

Note: Phase 1c, Beyer Boulevard West, will be implemented prior to the 700th dwelling unit in Phase 1.

Figure 7.3 – Phase 2 Roadways



Note: Secondary Emergency Vehicle Access Road will extend south to Rail Court.

Figure 7.4 – Phase 3 Roadways



Note: Secondary Emergency Vehicle Access Road will extend south to Rail Court.

Figure 7.5 – Phase 4 Roadways



Note: Off-site improvements will widen Beyer Boulevard between East Beyer Boulevard /Otay Mesa Road to Enright Drive prior to the 3,298th dwelling unit.

Note: Secondary Emergency Vehicle Access Road will extend south to Rail Court.

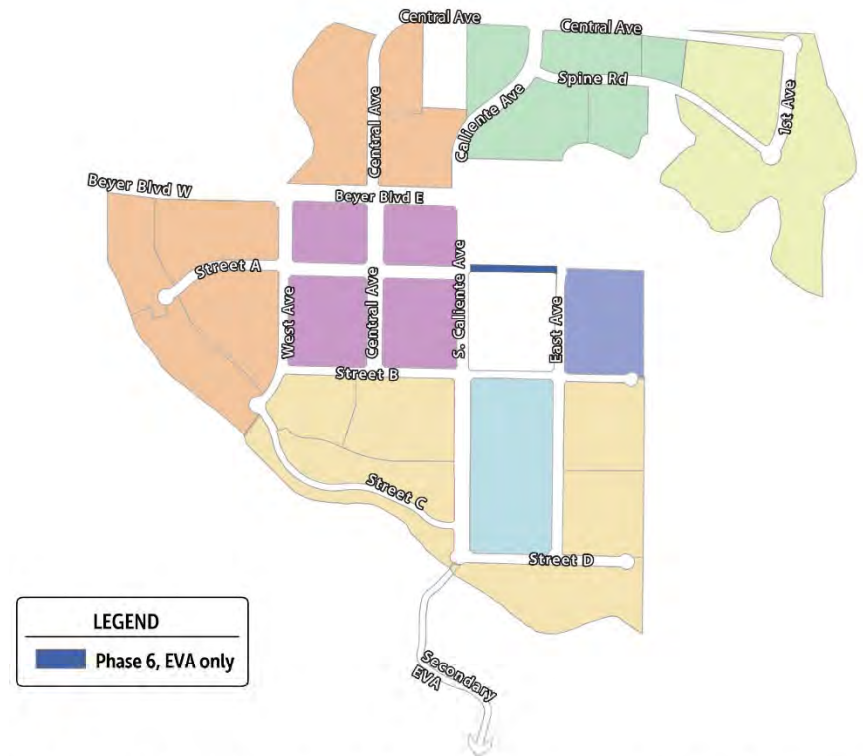
Figure 7.6 – Phase 5 Roadways



Note: No additional streets are expected to be required in this phase.

Note: Secondary Emergency Vehicle Access Road will extend south to Rail Court.

Figure 7.7 – Phase 6 Roadways



Note: Secondary Emergency Vehicle Access Road will extend south to Rail Court..

Figure 7.8 – Phase 7 Roadways



Note: Secondary Emergency Vehicle Access Road will extend south to Rail Court.

Attachment F

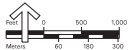
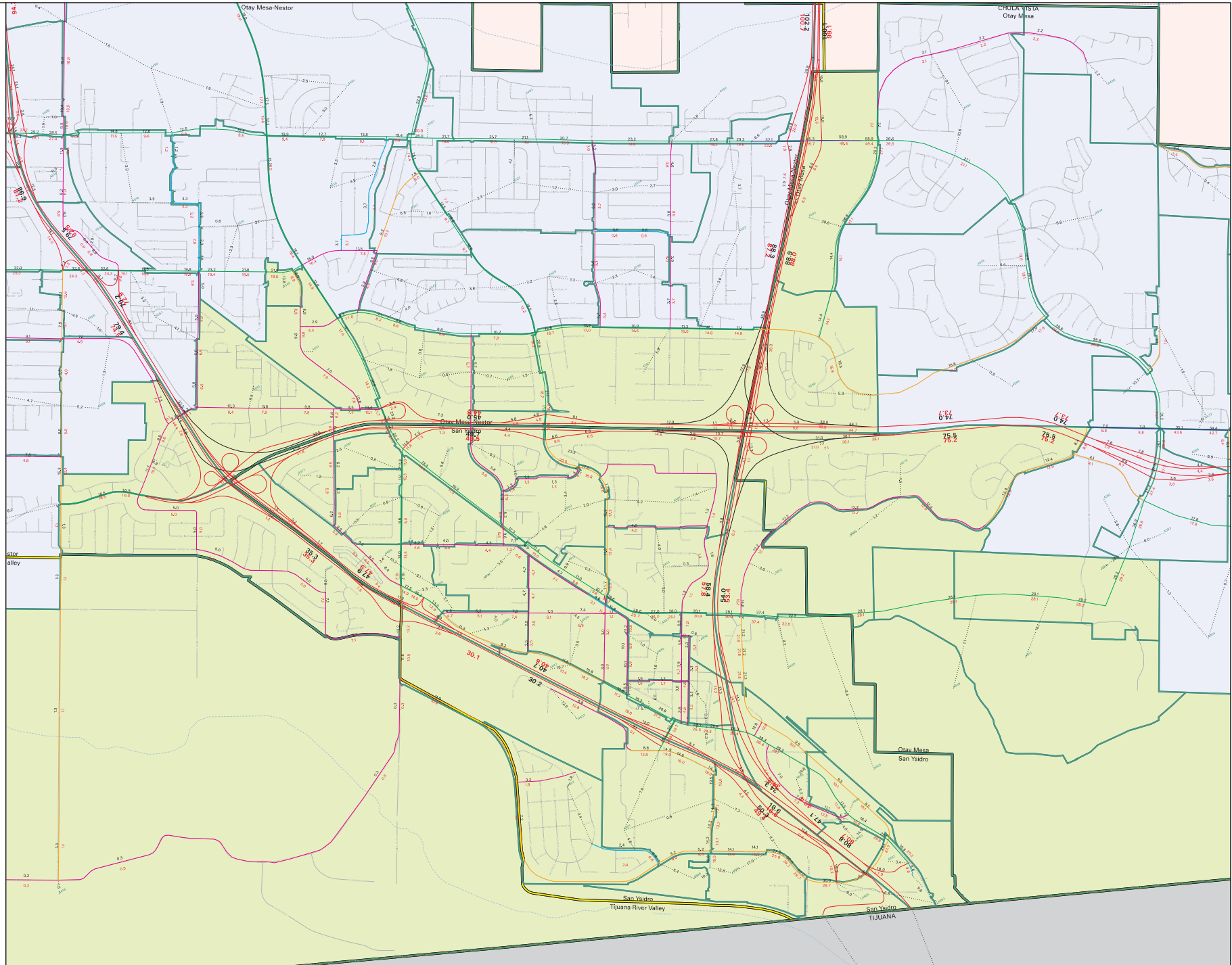
San Ysidro Community Plan Update SANDAG Output

**SANDAG Series 12 2035
Revenue Constrained
2011 RTP Highway Network
Forecasted Daily Volumes**
SAN YSIDRO

Model Run: 05/14/14
San Ysidro CDP
2035 Scenario D - Proposed LU 2, Hybrid Network

Forecasted Volumes

- Adjusted Volume
- Unadjusted Volume
- Traffic Analysis Zone

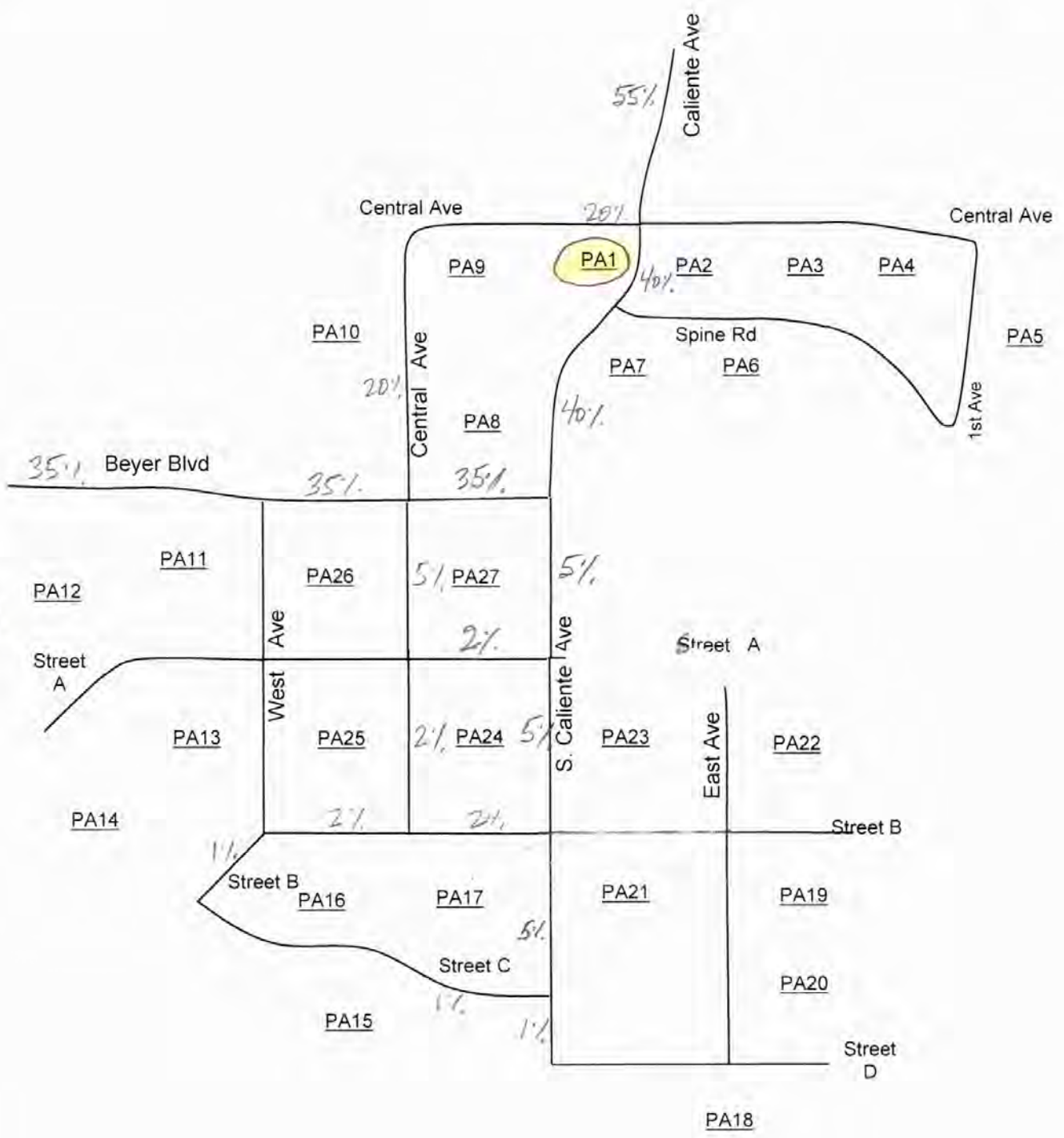


Attachment G

On-Site Roadway Trip Assignment Details

PA1

~~160 DU MF L20~~
120 DU MF L20

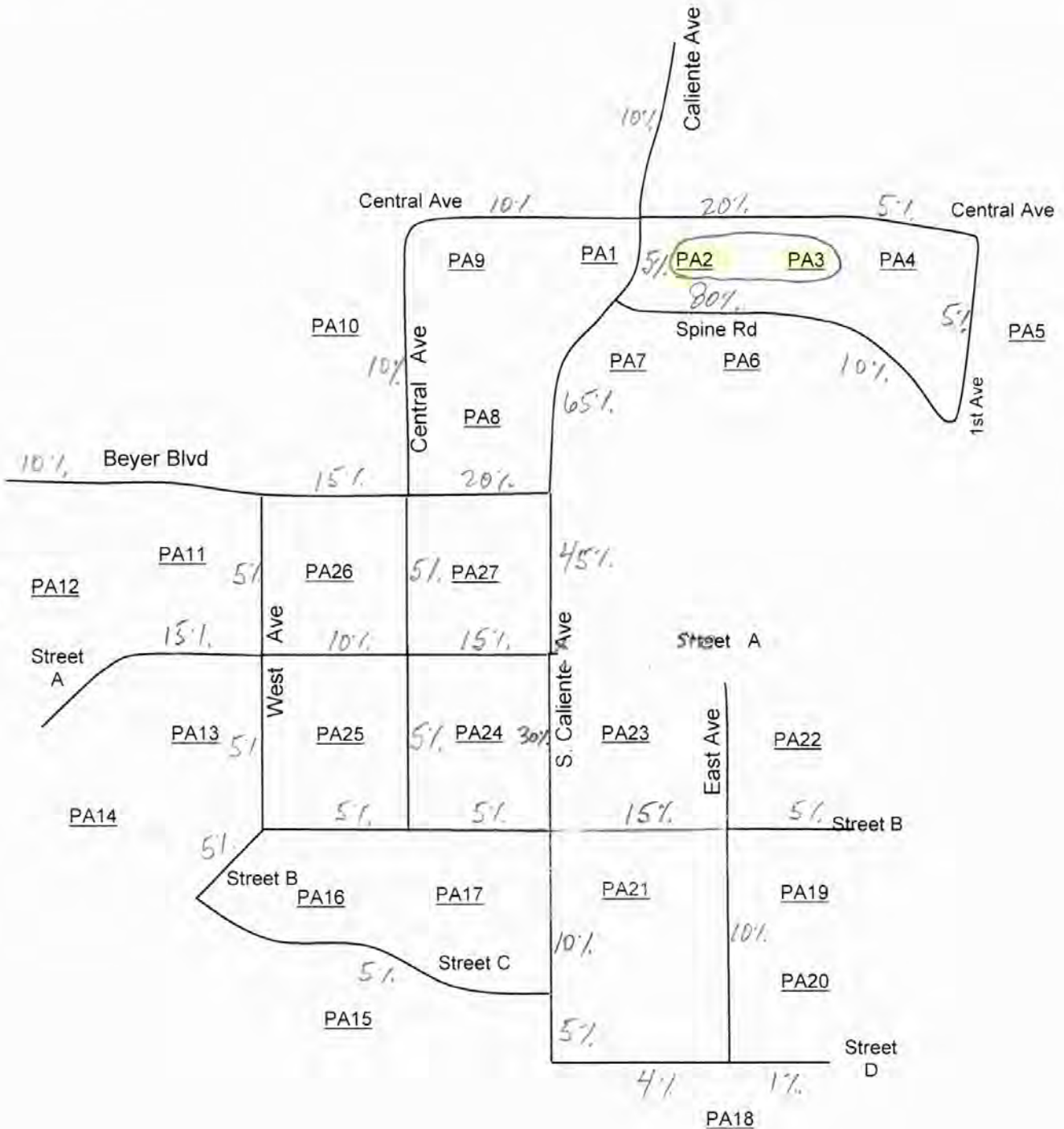


PA 2 & PA 3

PARK

~~7.1 AC~~

7.6 AC



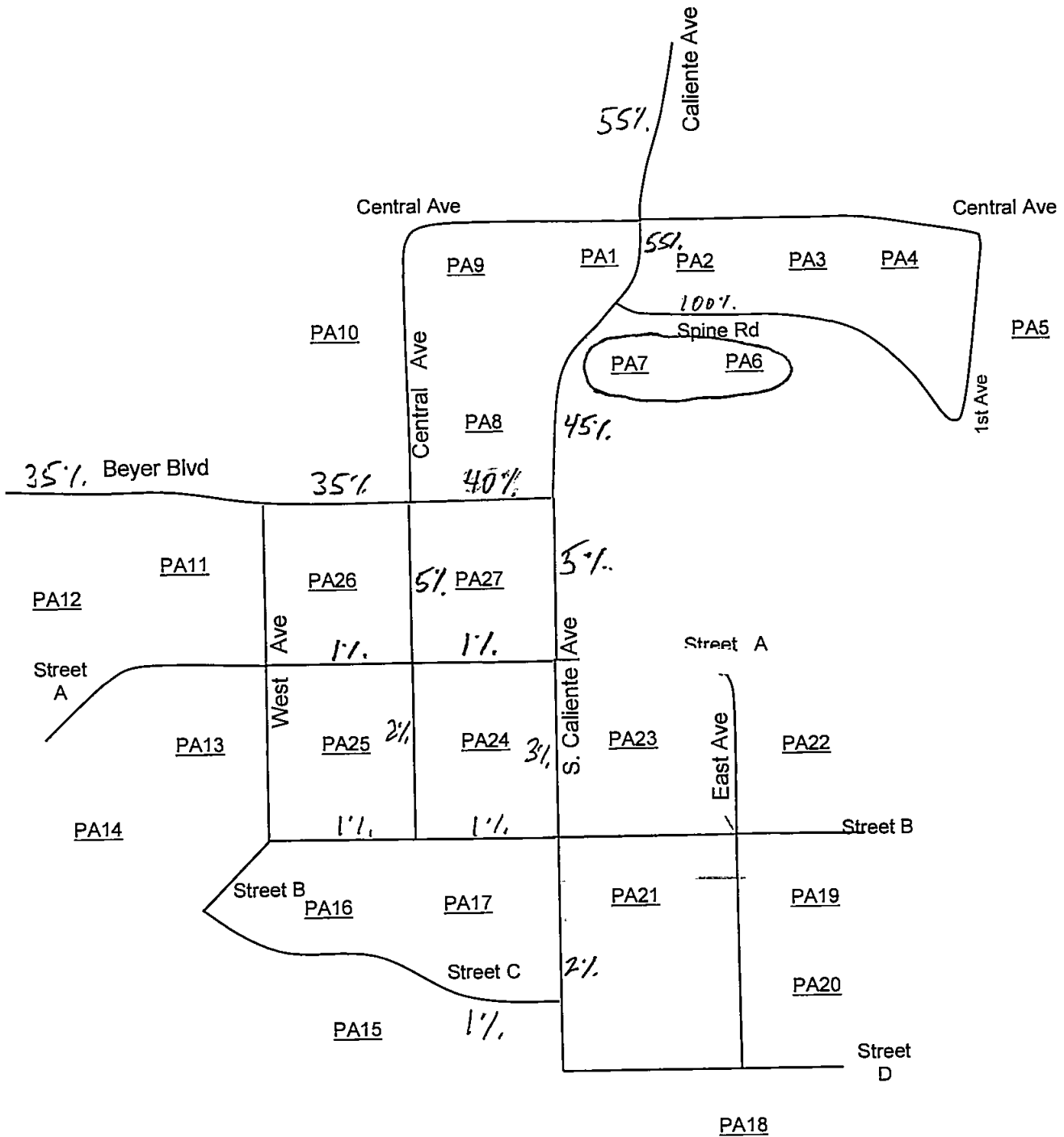
PA 4 & PA 5

819 DU
MF
L20

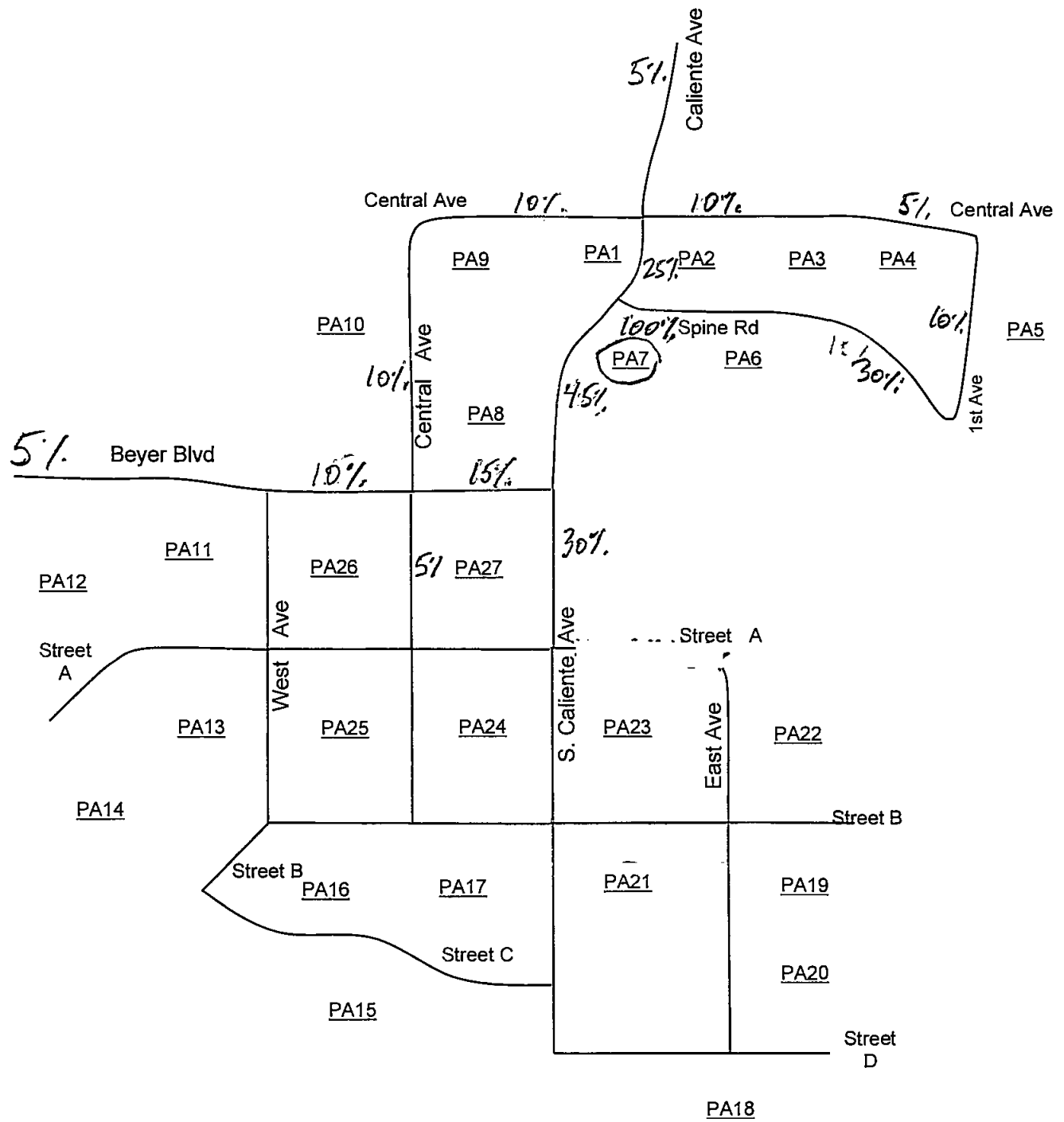


PA 6 & PA 7

264 DU
MF
L20

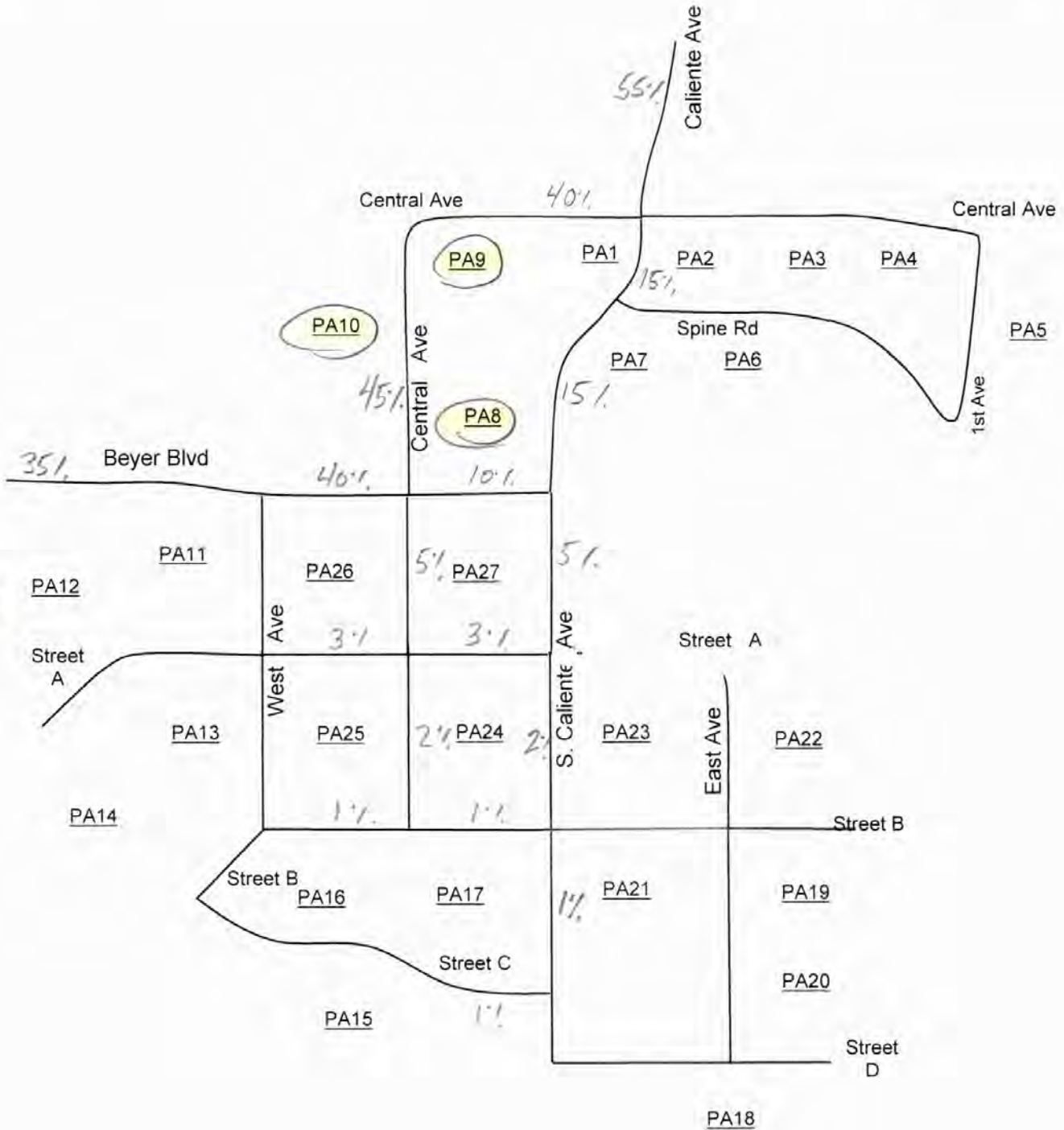


PA 7 SCHOOL OVERLAY



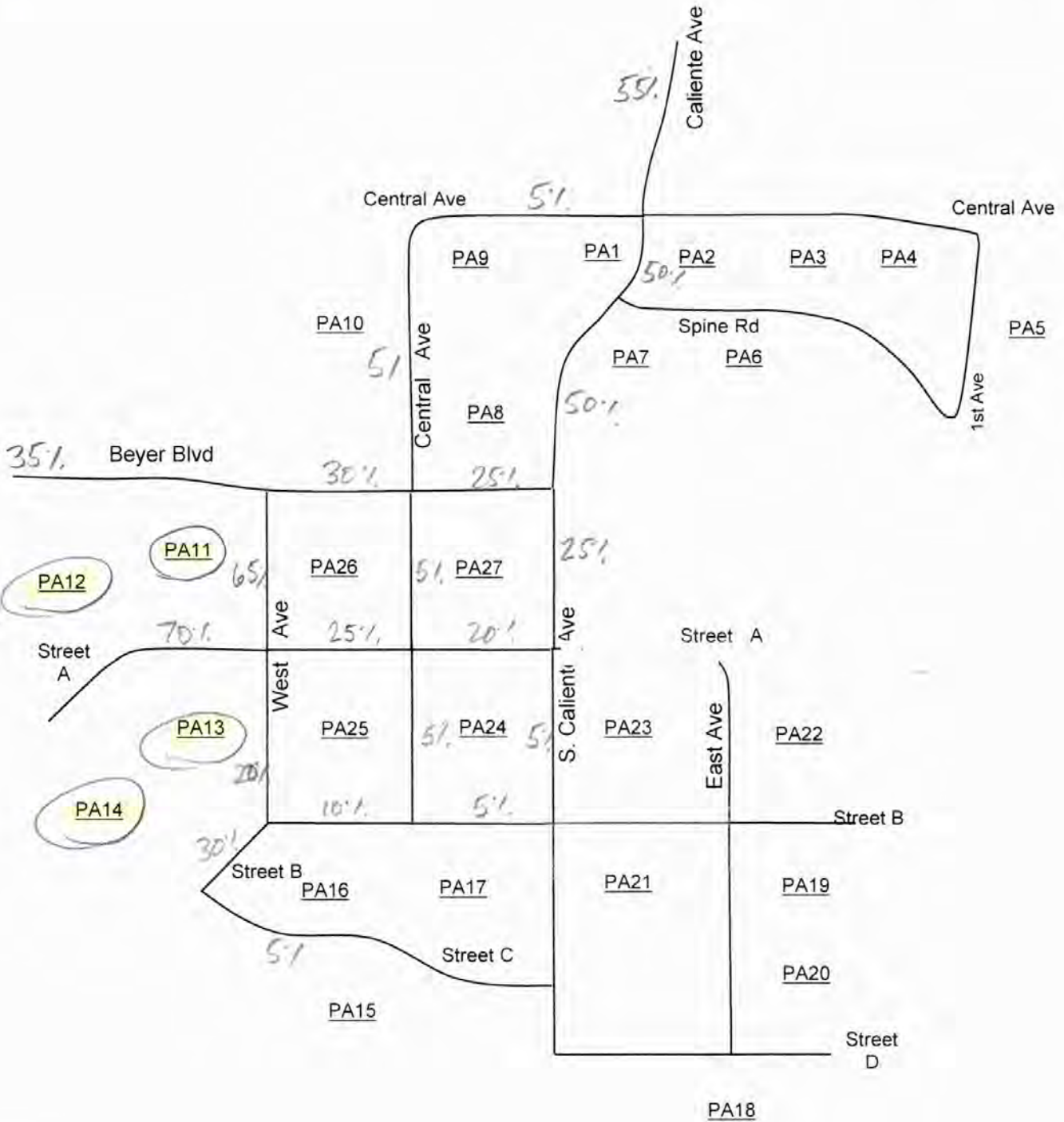
PA 8, 9, & 10

225 DU SF
107 DU MFL20
282 DU MF720



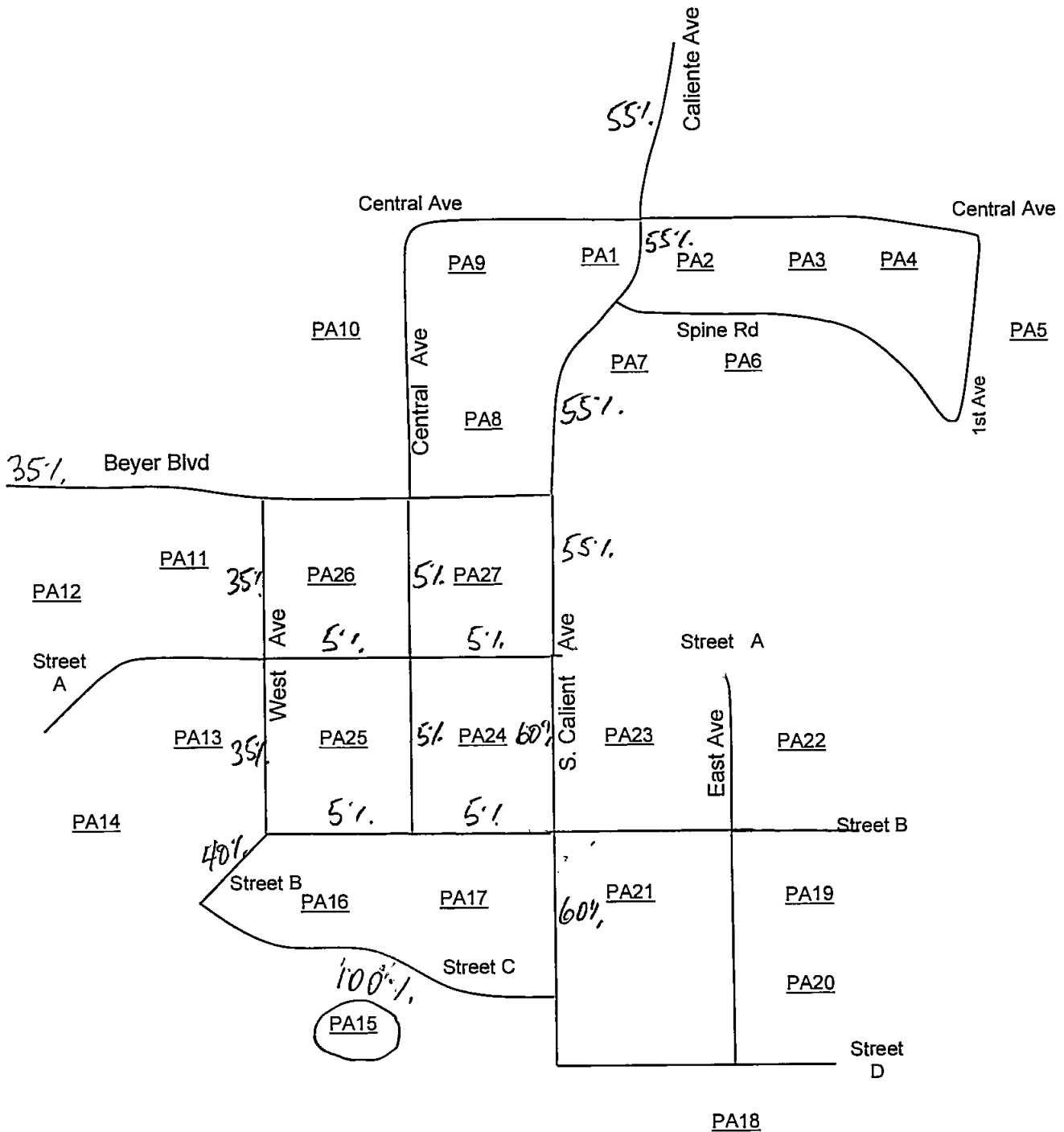
PA 11, 12, 13 & 14

318 DU SF
383 DU MF 220



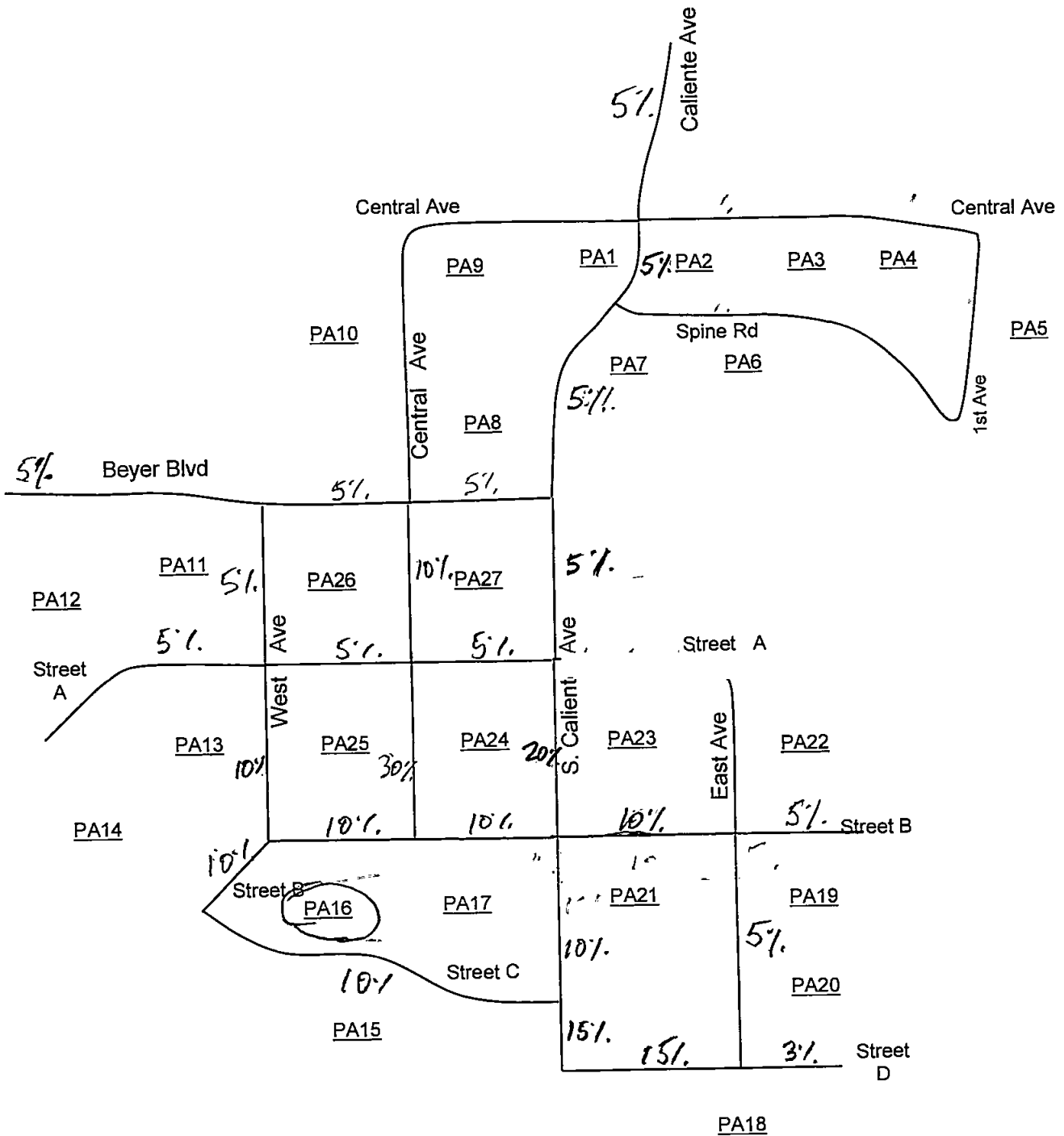
PA 15

243 DU
SF



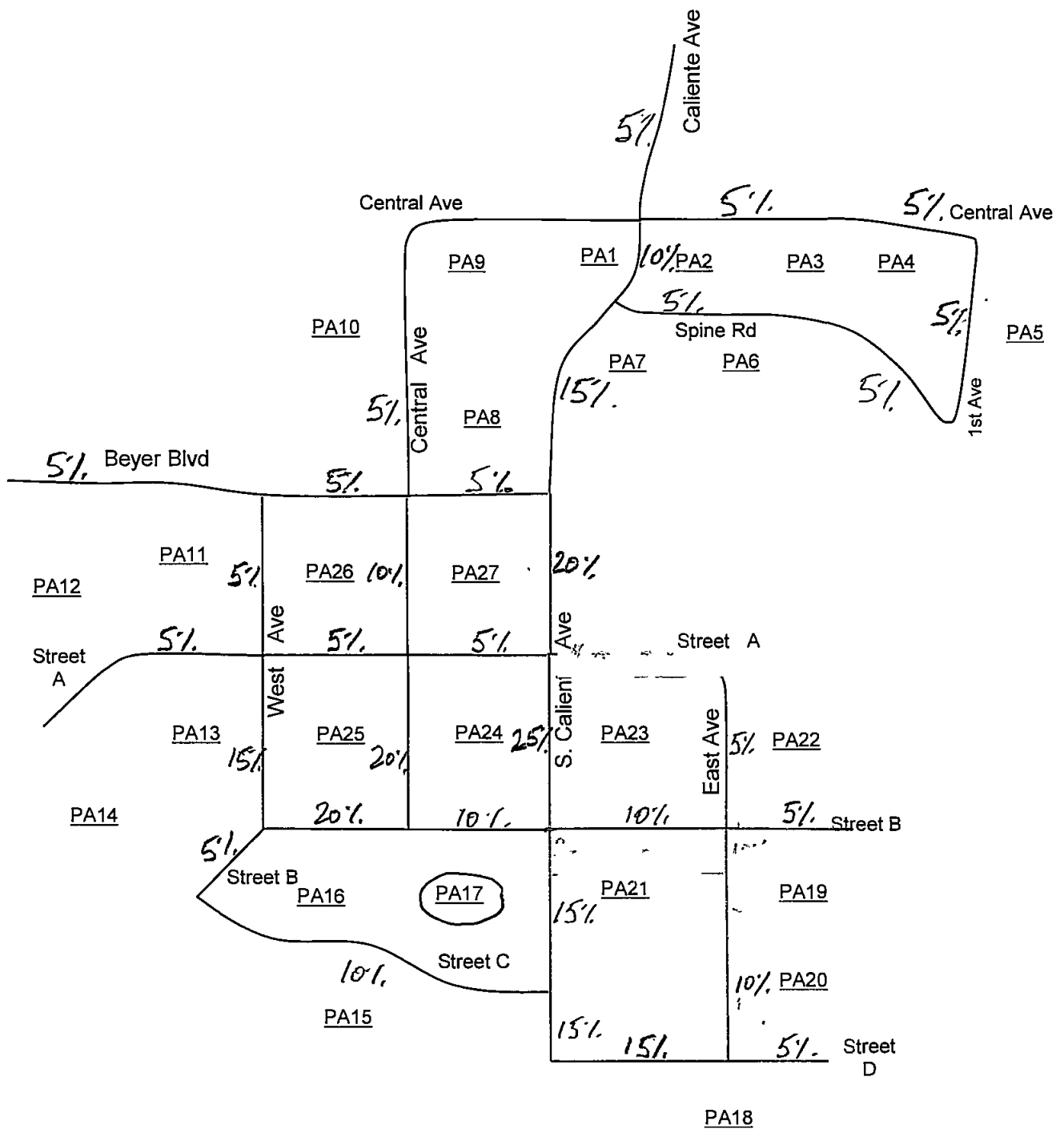
PA 16

SCHOOL



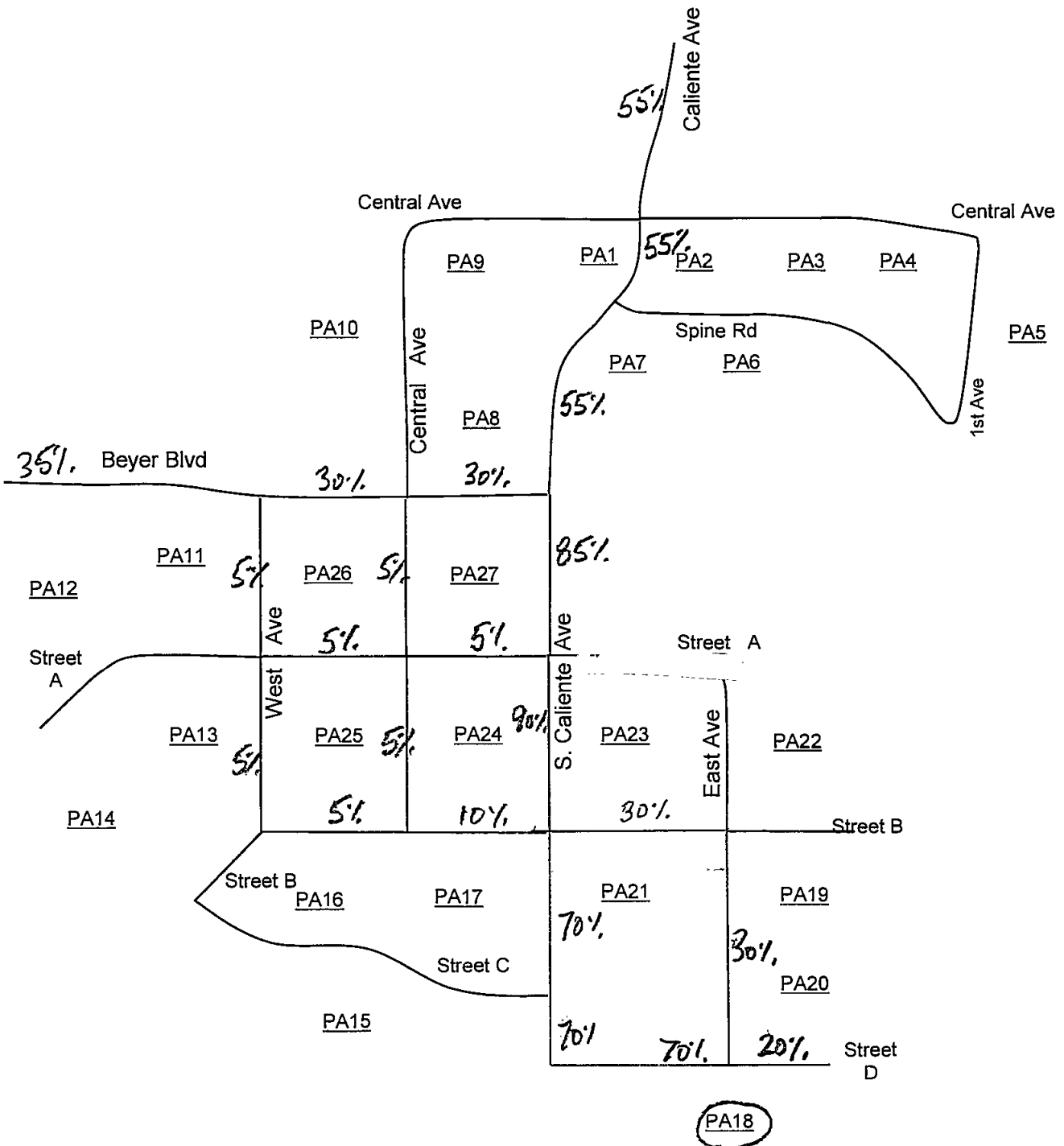
PA 17

PARK



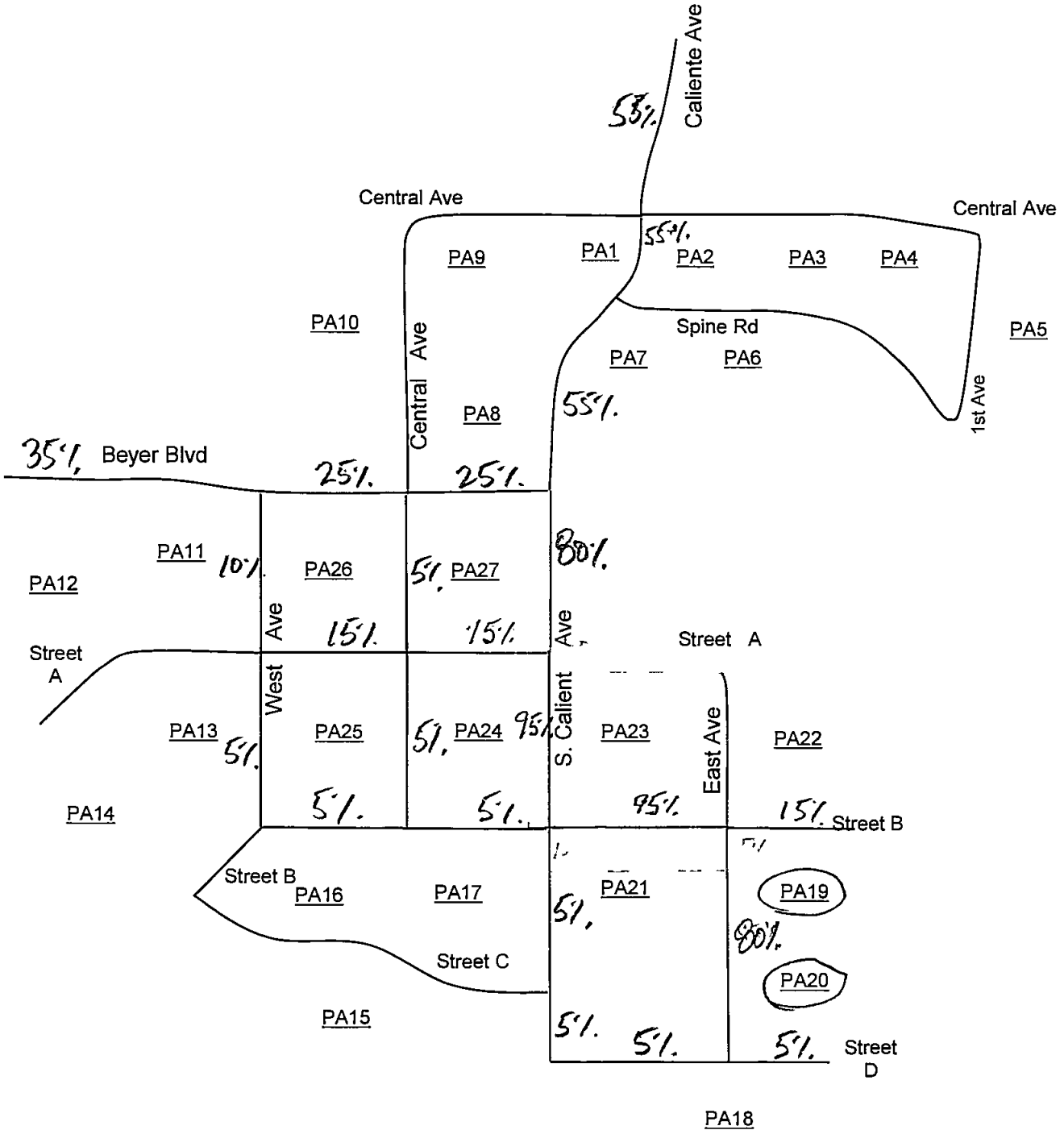
PA 18

238 DV SF



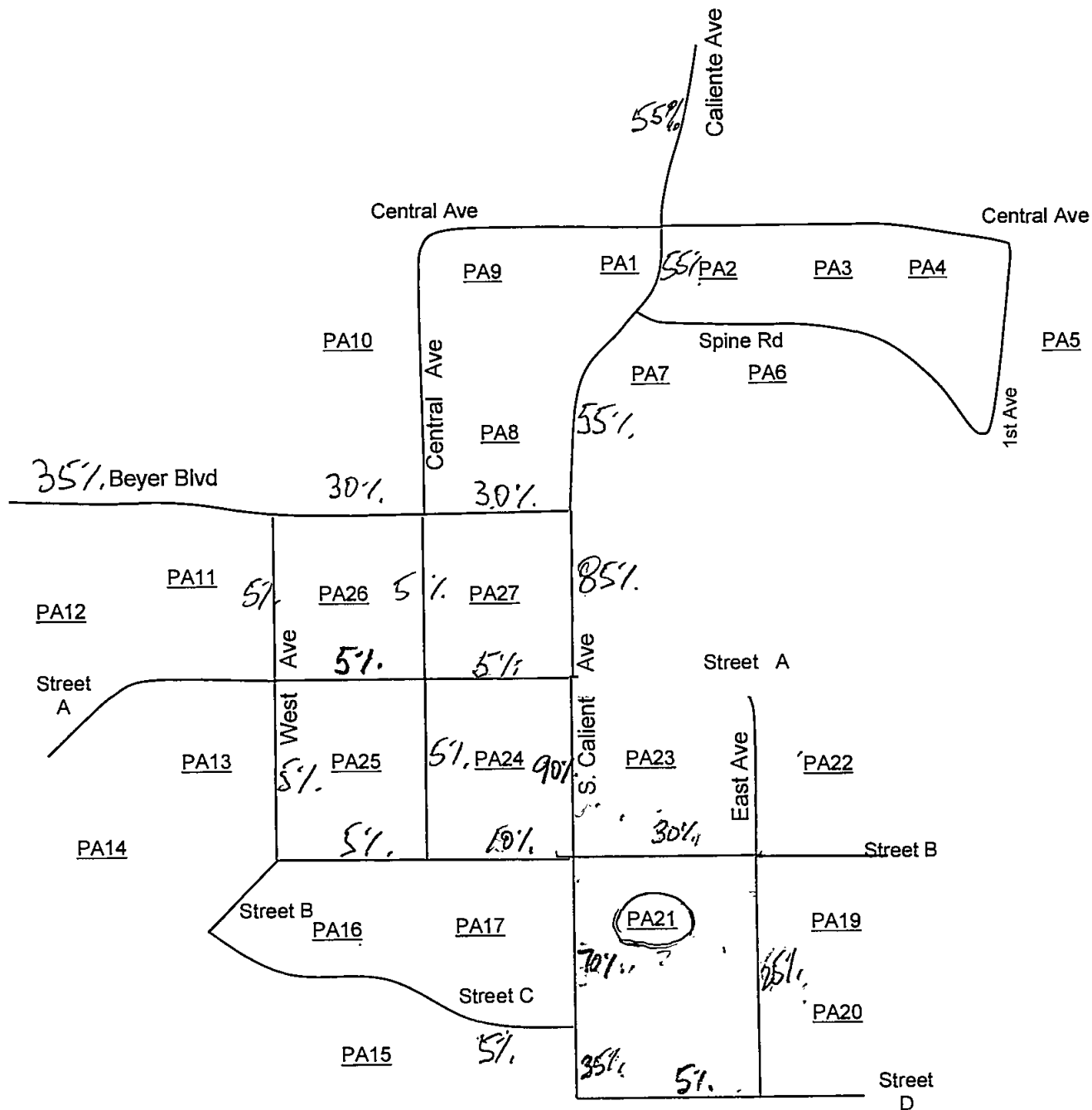
PA 19 & 20

124 DU SF
237 DU MF L 20



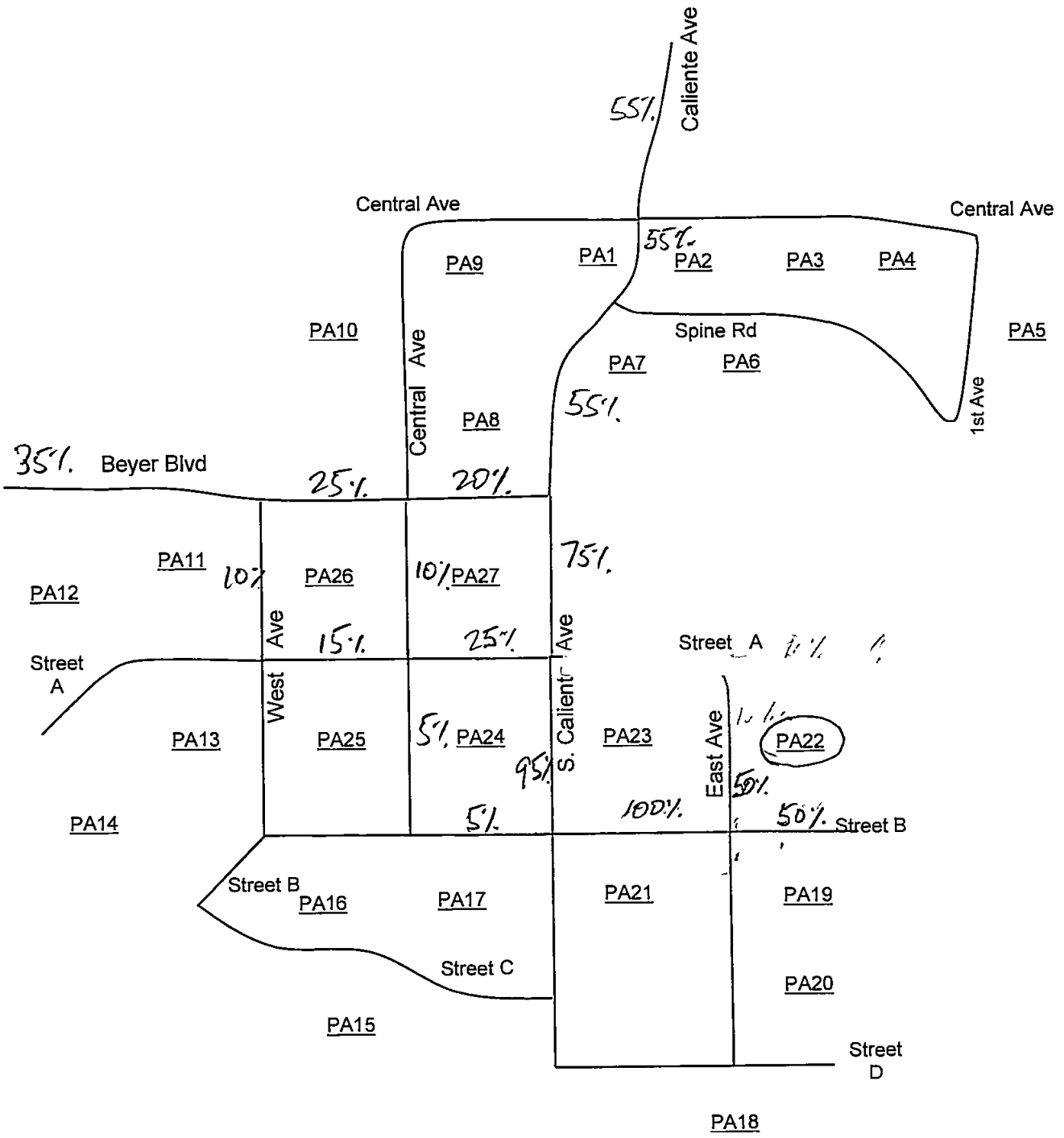
PA 21.

~~266 DU MF~~
306 DU MF



PA 22

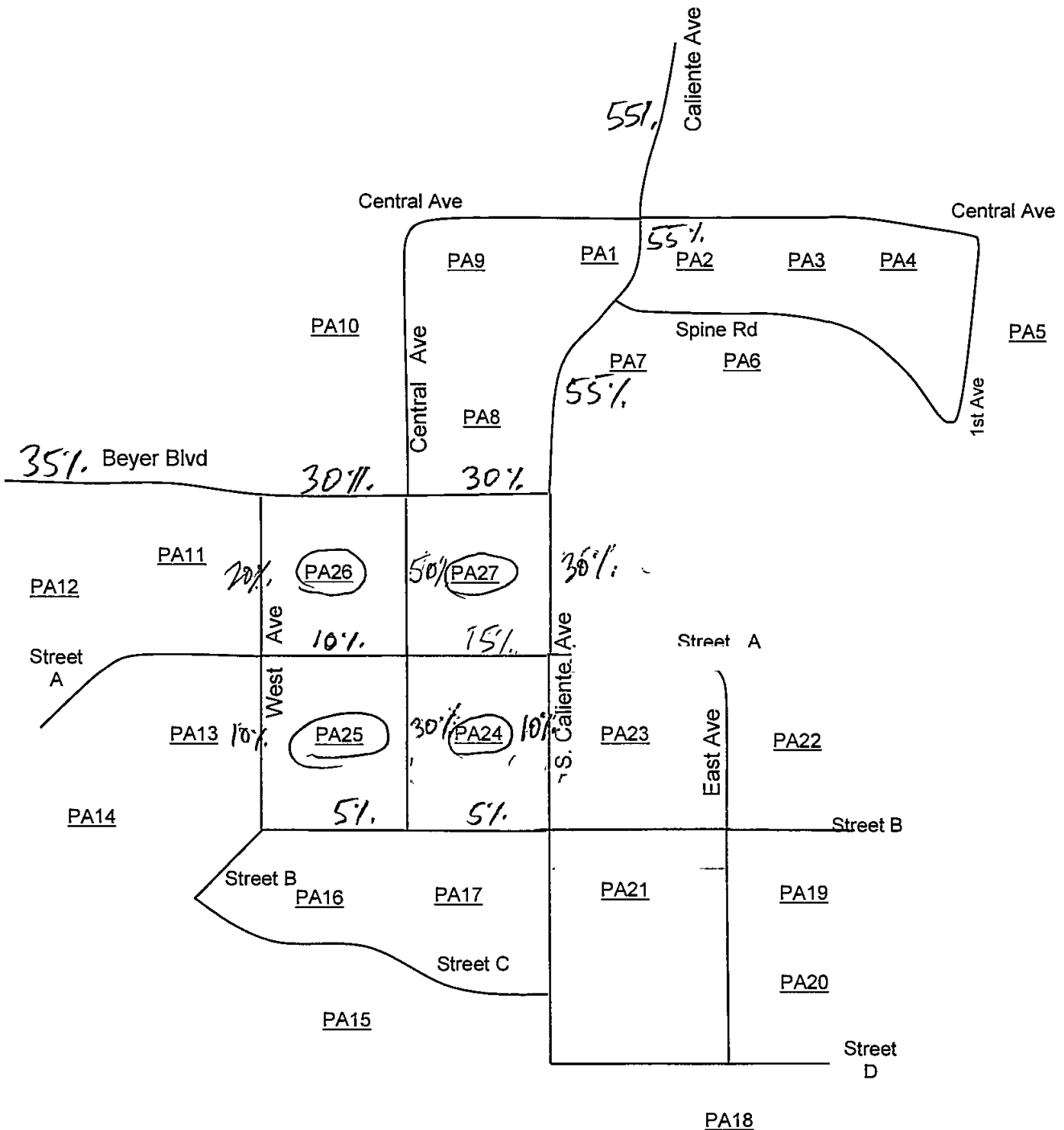
267 DU
MP
L 20



PA 24, 25, 26, & 27

RESIDENTIAL

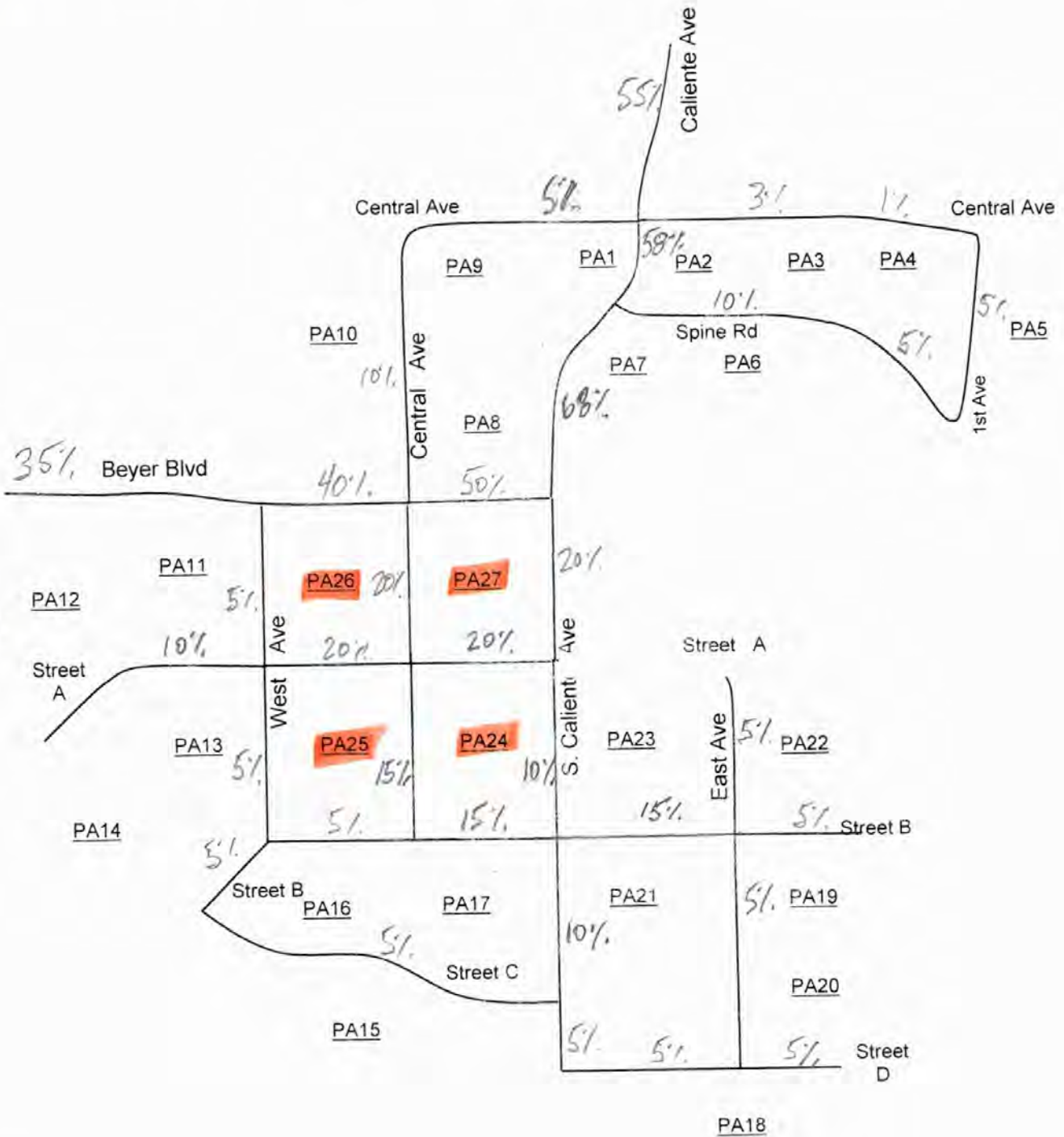
1,187 DU
MF
720



PA 24, 25, 26, & 27

175,000 SF

COMMERCIAL ALLOWED



Southwest Village

Planning Areas and Land Uses

| Land Use & TG | PA 1 | | PA 2&3 | | PA 4 | | PA 5 | | PA 6&7 | | PA 7 | | PA 8 | | PA 9 | | PA 10 | | PA 11 | | PA 12 | | PA 13 | | PA 14 | | PA 15 | |
|-------------------|------|------------|--------|------------|------|--------------|------|--------------|--------|--------------|----------|--------------|-------|--------------|------|------------|-------|--------------|-------|--------------|-------|--------------|-------|--------------|-------|--------------|-------|--------------|
| | % | ADT | % | ADT | % | ADT | % | ADT | % | ADT | % | ADT | % | ADT | % | ADT | % | ADT | % | ADT | % | ADT | % | ADT | % | ADT | % | ADT |
| Single Family | | | | | | | | | | | | | | | | | 225 | | | 137 | | | | | 181 | | | 243 |
| MultiFamily<20 | | 120 | | | | 211 | | 608 | | 264 | | | | | | 107 | | | | | | | | 193 | | | | |
| MultiFamily>20 | | | | | | | | | | | | | 282 | | | | | | | | | | | | | | | |
| Park (Acers) | | | | 7.6 | | | | | | | | | | | | | | | | | | | | | | | | |
| School (students) | | | | | | | | | | | Students | 668 | | | | | | | | | | | | | | | | |
| TG Single Family | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | 2,250 | | 0 | 1,370 | | 0 | | 1,810 | | 2,430 | | |
| TG MF<20 | | 960 | | 0 | | 1,688 | | 4,864 | | 2,112 | | 0 | | 0 | | 856 | | 0 | 1,520 | | 0 | | 1,544 | | 0 | | 0 | |
| TG MF>20 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | 1,692 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | |
| TG Commercial | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |
| TG Sch/Pk | | | | 380 | | | | | | | | 1,937 | | | | | | | | | | | | | | | | |
| TG TOTAL | | 960 | | 380 | | 1,688 | | 4,864 | | 2,112 | | 1,937 | | 1,692 | | 856 | | 2,250 | | 1,520 | | 1,370 | | 1,544 | | 1,810 | | 2,430 |

Rounded

Beyer Blvd

Total ADT Distribution and Assignment

| | Total ADT | 35% | 33% | 10% | 38% | 35% | 591 | 35% | 1,702 | 35% | 739 | 5% | 97 | 35% | 592 | 35% | 300 | 35% | 788 | 35% | 532 | 35% | 480 | 35% | 540 | 35% | 634 | 35% | 851 |
|-----------------------------|-----------|-----|-----|-----|-----|-----|-----|-----|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Enright Dr to West Ave | 28,100* | 35% | 336 | 10% | 38 | 35% | 591 | 35% | 1,702 | 35% | 739 | 5% | 97 | 35% | 592 | 35% | 300 | 35% | 788 | 35% | 532 | 35% | 480 | 35% | 540 | 35% | 634 | 35% | 851 |
| West Ave to Central Ave | 28,100* | 35% | 336 | 15% | 57 | 35% | 591 | 35% | 1,702 | 35% | 739 | 10% | 194 | 40% | 677 | 40% | 342 | 40% | 900 | 30% | 456 | 30% | 411 | 30% | 463 | 30% | 543 | | 0 |
| Central Ave to Caliente Ave | 28,100* | 35% | 336 | 20% | 76 | 35% | 591 | 35% | 1,702 | 40% | 845 | 15% | 291 | 10% | 169 | 10% | 86 | 10% | 225 | 25% | 380 | 25% | 343 | 25% | 386 | 25% | 453 | | 0 |

Caliente Ave

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|---------|-----|-----|-----|-----|-----|-----|-----|-------|-----|-------|-----|-----|-----|-----|-----|-----|-----|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| Airway Rd to Central Ave | 36,900* | 55% | 528 | 10% | 38 | 55% | 928 | 55% | 2,675 | 55% | 1,162 | 5% | 97 | 55% | 931 | 55% | 471 | 55% | 1,238 | 55% | 836 | 55% | 754 | 55% | 849 | 55% | 996 | 55% | 1,337 |
| Central Ave to Spine Rd | 29,200* | 40% | 384 | 5% | 19 | 10% | 169 | 10% | 486 | 55% | 1,162 | 25% | 484 | 15% | 254 | 15% | 128 | 15% | 338 | 50% | 760 | 50% | 685 | 50% | 772 | 50% | 905 | 55% | 1,337 |
| Spine Rd to Beyer Blvd | 29,200* | 40% | 384 | 65% | 247 | 40% | 675 | 40% | 1,946 | 45% | 950 | 45% | 872 | 15% | 254 | 15% | 128 | 15% | 338 | 50% | 760 | 50% | 685 | 50% | 772 | 50% | 905 | 55% | 1,337 |
| Beyer Blvd to Street A | 17,500 | 5% | 48 | 45% | 171 | 5% | 84 | 5% | 243 | 5% | 106 | 30% | 581 | 5% | 85 | 5% | 43 | 5% | 113 | 25% | 380 | 25% | 343 | 25% | 386 | 25% | 453 | 55% | 1,337 |
| Street A to Street B | 14,200 | 5% | 48 | 30% | 114 | 3% | 51 | 3% | 146 | 3% | 63 | | 0 | 2% | 34 | 2% | 17 | 2% | 45 | 5% | 76 | 5% | 69 | 5% | 77 | 5% | 91 | 60% | 1,458 |
| Street B to Street C | 6,800 | 5% | 48 | 10% | 38 | 2% | 34 | 2% | 97 | 2% | 42 | | 0 | 1% | 17 | 1% | 9 | 1% | 23 | | 0 | | 0 | | 0 | | 0 | 60% | 1,458 |
| Street C to Street D | 3,000 | 1% | 10 | 5% | 19 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | 0% | 0 |

Central Ave

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|-------|-----|-----|-----|----|-----|-------|-----|-------|----|-----|-----|-----|-----|-----|-----|-----|-----|-------|----|----|----|----|----|----|----|----|----|-----|
| West of 1st Ave | 6,000 | | 0 | 5% | 19 | 60% | 1,013 | 60% | 2,918 | | 0 | 5% | 97 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |
| East of Caliente Ave | 7,200 | | 0 | 20% | 76 | 60% | 1,013 | 60% | 2,918 | | 0 | 10% | 194 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |
| West of Caliente Ave | 3,900 | 20% | 192 | 10% | 38 | 5% | 84 | 5% | 243 | | 0 | 10% | 194 | 40% | 677 | 40% | 342 | 40% | 900 | 5% | 76 | 5% | 69 | 5% | 77 | 5% | 91 | | 0 |
| North of Beyer Blvd | 4,500 | 20% | 192 | 10% | 38 | 5% | 84 | 5% | 243 | | 0 | 10% | 194 | 45% | 761 | 45% | 385 | 45% | 1,013 | 5% | 76 | 5% | 69 | 5% | 77 | 5% | 91 | | 0 |
| Beyer Blvd to Street A | 7,700 | 5% | 48 | 5% | 19 | 5% | 84 | 5% | 243 | 5% | 106 | 5% | 97 | 5% | 85 | 5% | 43 | 5% | 113 | 5% | 76 | 5% | 69 | 5% | 77 | 5% | 91 | 5% | 122 |
| Street A to Street B | 5,500 | 2% | 19 | 5% | 19 | 2% | 34 | 2% | 97 | 2% | 42 | | 0 | 2% | 34 | 2% | 17 | 2% | 45 | 5% | 76 | 5% | 69 | 5% | 77 | 5% | 91 | 5% | 122 |

East Ave

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|-------|--|---|-----|----|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|
| Street A to Street B | 1,700 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |
| Street B to Street D | 4,700 | | 0 | 10% | 38 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |

Spine Rd

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------|-------|--|---|-----|-----|-----|-----|-----|-------|------|-------|------|-------|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|
| West Half | 8,200 | | 0 | 80% | 304 | 40% | 675 | 40% | 1,946 | 100% | 2,112 | 100% | 1,937 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |
| East Half | 3,200 | | 0 | 10% | 38 | 30% | 506 | 30% | 1,459 | | 0 | 30% | 581 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |

Street A

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|-------|----|----|-----|----|----|----|----|----|----|----|--|---|----|----|----|----|----|-----|-------|-----|-----|-----|-------|-----|-------|-----|----|-----|
| West of West Ave | 5,800 | | 0 | 15% | 57 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 70% | 1,064 | 70% | 959 | 70% | 1,081 | 70% | 1,267 | | 0 | |
| West Ave to Central Ave | 6,300 | | 0 | 10% | 38 | 1% | 17 | 1% | 49 | 1% | 21 | | 0 | 3% | 51 | 3% | 26 | 3% | 68 | 25% | 380 | 25% | 343 | 25% | 386 | 25% | 453 | 5% | 122 |
| Central Ave to Caliente Ave | 6,600 | 2% | 19 | 15% | 57 | 1% | 17 | 1% | 49 | 1% | 21 | | 0 | 3% | 51 | 3% | 26 | 3% | 68 | 20% | 304 | 20% | 274 | 20% | 309 | 20% | 362 | 5% | 122 |

Street B

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|-------|----|----|-----|----|----|----|----|----|----|----|--|---|----|----|----|---|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Street C to West Ave | 3,700 | 1% | 10 | 5% | 19 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 30% | 456 | 30% | 411 | 30% | 463 | 30% | 543 | 40% | 972 | |
| West Ave to Central Ave | 2,600 | 2% | 19 | 5% | 19 | 1% | 17 | 1% | 49 | 1% | 21 | | 0 | 1% | 17 | 1% | 9 | 1% | 23 | 10% | 152 | 10% | 137 | 10% | 154 | 10% | 181 | 5% | 122 |
| Central Ave to S. Caliente Ave | 3,800 | 2% | 19 | 5% | 19 | 1% | 17 | 1% | 49 | 1% | 21 | | 0 | 1% | 17 | 1% | 9 | 1% | 23 | 5% | 76 | 5% | 69 | 5% | 77 | 5% | 91 | 5% | 122 |
| S. Caliente Ave to East Ave | 8,800 | | 0 | 15% | 57 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |
| East of East Ave | 2,300 | | 0 | 5% | 19 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |

Street C

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|-------|----|----|----|----|----|----|----|----|----|----|--|---|----|----|----|---|----|----|----|----|----|----|----|----|----|----|------|-------|
| West Ave to S. Caliente Ave | 4,000 | 1% | 10 | 5% | 19 | 1% | 17 | 1% | 49 | 1% | 21 | | 0 | 1% | 17 | 1% | 9 | 1% | 23 | 5% | 76 | 5% | 69 | 5% | 77 | 5% | 91 | 100% | 2,430 |
|-----------------------------|-------|----|----|----|----|----|----|----|----|----|----|--|---|----|----|----|---|----|----|----|----|----|----|----|----|----|----|------|-------|

Street D

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|-------|--|---|----|----|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|
| S. Caliente Ave to East Ave | 2,900 | | 0 | 4% | 15 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |
| East of East Ave | 1,300 | | 0 | 1% | 4 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |

West Ave

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|-------|--|---|----|----|--|---|--|---|--|---|--|---|--|---|--|---|--|-----|-----|-----|-----|-----|-------|-----|-------|-----|-----|
| Beyer Blvd to Street A | 7,900 | | 0 | 5% | 19 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 65% | 988 | 65% | 891 | 65% | 1,004 | 65% | 1,177 | 35% | 851 |
| Street A to Street B | 4,100 | | 0 | 5% | 19 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 20% | 304 | 20% | 274 | 20% | 309 | 20% | 362 | 35% | 851 |

1st Ave

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|-------|--|---|----|----|-----|-----|-----|-------|--|---|-----|-----|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|
| Central Ave to Spine Rd | 4,100 | | 0 | 5% | 19 | 50% | 844 | 50% | 2,432 | | 0 | 10% | 194 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |
|-------------------------|-------|--|---|----|----|-----|-----|-----|-------|--|---|-----|-----|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|

* From SYCPU Horizon Year Volumes

| Southwest Village Planning Areas and Land Uses | | | | | | | | | | | | | | | PA 24-27 | Commercial | Adjacent cumulative on north edge of SWV |
|--|--------------|-------------|--------------|--------------|--------------|--------------|--------------|-------------|--------------|--------------|--------------|--------------|---------------|--------|----------|------------|--|
| Land Use & TG | PA 16 % ADT | PA 17 % ADT | PA 18 % ADT | PA 19 % ADT | PA 20 % ADT | PA 21 % ADT | PA 22 % ADT | PA 23 % ADT | PA 24 % ADT | PA 25 % ADT | PA 26 % ADT | PA 27 % ADT | % ADT | % ADT | | | |
| Single Family | | | 238 | | 134 | | | | | | | | | | | | |
| MultiFamily<20 | | | | 237 | | | 306 | 267 | | | | | | | | | |
| MultiFamily>20 | | | | | | | | | 352 | 365 | 251 | 219 | | | | | |
| Park (Acers) | | 10.5 | | | | | | Open | | | | | | | | | |
| School (students) | Students 600 | | | | | | | Space | | | | | | | | | |
| TG Single Family | 0 | 0 | 2,380 | 0 | 1,340 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| TG MF<20 | 0 | 0 | 0 | 1,896 | 0 | 2,448 | 2,136 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| TG MF>20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,112 | 2,190 | 1,506 | 1,314 | 0 | 0 | | | |
| TG Commercial | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12,250 | | | |
| TG Sch/Pk | 1,740 | 525 | | | | | | | | | | | | | | | |
| TG TOTAL | 1,740 | 525 | 2,380 | 1,896 | 1,340 | 2,448 | 2,136 | 0 | 2,112 | 2,190 | 1,506 | 1,314 | 12,250 | | | | |
| Beyer Blvd | | | | | | | | | | | | | | | | | |
| Enright Dr to West Ave | 5% 87 | 5% 26 | 35% 833 | 35% 664 | 35% 469 | 35% 857 | 35% 748 | 0 | 35% 739 | 35% 767 | 35% 527 | 35% 460 | 35% 4,288 | | | | |
| West Ave to Central Ave | 5% 87 | 5% 26 | 30% 714 | 25% 474 | 55% 335 | 30% 734 | 55% 534 | 0 | 30% 634 | 30% 657 | 30% 452 | 30% 394 | 40% 4,900 | | | | |
| Central Ave to Caliente Ave | 5% 87 | 5% 26 | 30% 714 | 25% 474 | 25% 335 | 30% 734 | 20% 427 | 0 | 30% 634 | 30% 657 | 30% 452 | 30% 394 | 50% 6,125 | | | | |
| Caliente Ave | | | | | | | | | | | | | | | | | |
| Airway Rd to Central Ave | 5% 87 | 5% 26 | 55% 1,309 | 55% 1,043 | 55% 737 | 55% 1,346 | 55% 1,175 | 0 | 55% 1,162 | 55% 1,205 | 55% 828 | 55% 723 | 55% 6,738 | | | | |
| Central Ave to Spine Rd | 5% 87 | 10% 53 | 55% 1,309 | 55% 1,043 | 55% 737 | 55% 1,346 | 55% 1,175 | 0 | 55% 1,162 | 55% 1,205 | 55% 828 | 55% 723 | 58% 7,105 | | | | |
| Spine Rd to Beyer Blvd | 5% 87 | 15% 79 | 55% 1,309 | 55% 1,043 | 55% 737 | 55% 1,346 | 55% 1,175 | 0 | 55% 1,162 | 55% 1,205 | 55% 828 | 55% 723 | 68% 8,330 | | | | |
| Beyer Blvd to Street A | 5% 87 | 20% 105 | 85% 2,023 | 80% 1,517 | 80% 1,072 | 85% 2,081 | 75% 1,602 | 0 | 30% 634 | 30% 657 | 30% 452 | 30% 394 | 20% 2,450 | | | | |
| Street A to Street B | 20% 348 | 25% 131 | 90% 2,142 | 95% 1,801 | 95% 1,273 | 90% 2,203 | 95% 2,029 | 0 | 10% 211 | 10% 219 | 10% 151 | 10% 131 | 10% 1,225 | | | | |
| Street B to Street C | 10% 174 | 15% 79 | 70% 1,666 | 5% 95 | 5% 67 | 70% 1,714 | 0 | 0 | 0 | 0 | 0 | 0 | 10% 1,225 | | | | |
| Street C to Street D | 15% 261 | 15% 79 | 40% 952 | 5% 95 | 5% 67 | 35% 857 | 0 | 0 | 0 | 0 | 0 | 0 | 5% 613 | | | | |
| Central Ave | | | | | | | | | | | | | | | | | |
| West of 1st Ave | 0 | 5% 26 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1% 123 | 1,800 | | | |
| East of Caliente Ave | 0 | 5% 26 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3% 368 | 2,565 | | | |
| West of Caliente Ave | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5% 613 | 285 | | | |
| North of Beyer Blvd | 0 | 5% 26 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10% 1,225 | | | | |
| Beyer Blvd to Street A | 10% 174 | 10% 53 | 0 | 5% 95 | 5% 67 | 0 | 0 | 0 | 50% 1,056 | 50% 1,095 | 50% 753 | 50% 657 | 20% 2,450 | | | | |
| Street A to Street B | 30% 522 | 20% 105 | 0 | 5% 95 | 5% 67 | 0 | 0 | 0 | 30% 634 | 30% 657 | 30% 452 | 30% 394 | 15% 1,838 | | | | |
| East Ave | | | | | | | | | | | | | | | | | |
| Street A to Street B | 0 | 5% 26 | 0 | 0 | 0 | 0 | 50% 1,068 | 0 | 0 | 0 | 0 | 0 | 5% 613 | | | | |
| Street B to Street D | 5% 87 | 10% 53 | 30% 714 | 80% 1,517 | 80% 1,072 | 25% 612 | 0 | 0 | 0 | 0 | 0 | 0 | 5% 613 | | | | |
| Spine Rd | | | | | | | | | | | | | | | | | |
| West Half | 0 | 5% 26 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10% 1,225 | | | | |
| East Half | 0 | 5% 26 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5% 613 | | | | |
| Street A | | | | | | | | | | | | | | | | | |
| West of West Ave | 5% 87 | 5% 26 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10% 1,225 | | | | |
| West Ave to Central Ave | 5% 87 | 5% 26 | 5% 119 | 15% 284 | 15% 201 | 5% 122 | 15% 320 | 0 | 10% 211 | 10% 219 | 10% 151 | 10% 131 | 20% 2,450 | | | | |
| Central Ave to Caliente Ave | 5% 87 | 5% 26 | 5% 119 | 15% 284 | 15% 201 | 5% 122 | 25% 534 | 0 | 15% 317 | 15% 329 | 15% 226 | 15% 197 | 20% 2,450 | | | | |
| Street B | | | | | | | | | | | | | | | | | |
| Street C to West Ave | 10% 174 | 5% 26 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5% 613 | | | | |
| West Ave to Central Ave | 10% 174 | 20% 105 | 5% 119 | 5% 95 | 5% 67 | 5% 122 | 0 | 0 | 5% 106 | 5% 110 | 5% 75 | 5% 66 | 5% 613 | | | | |
| Central Ave to S. Caliente Ave | 10% 174 | 10% 53 | 10% 238 | 5% 95 | 5% 67 | 10% 245 | 5% 107 | 0 | 5% 106 | 5% 110 | 5% 75 | 5% 66 | 15% 1,838 | | | | |
| S. Caliente Ave to East Ave | 10% 174 | 10% 53 | 30% 714 | 95% 1,801 | 95% 1,273 | 30% 734 | 100% 2,136 | 0 | 0 | 0 | 0 | 0 | 15% 1,838 | | | | |
| East of East Ave | 5% 87 | 5% 26 | 0 | 15% 284 | 15% 201 | 0 | 50% 1,068 | 0 | 0 | 0 | 0 | 0 | 5% 613 | | | | |
| Street C | | | | | | | | | | | | | | | | | |
| West Ave to S. Caliente Ave | 10% 174 | 10% 53 | 5% 119 | 0 | 0 | 5% 122 | 0 | 0 | 0 | 0 | 0 | 0 | 5% 613 | | | | |
| Street D | | | | | | | | | | | | | | | | | |
| S. Caliente Ave to East Ave | 15% 261 | 15% 79 | 70% 1,666 | 5% 95 | 5% 67 | 5% 122 | 0 | 0 | 0 | 0 | 0 | 0 | 5% 613 | | | | |
| East of East Ave | 3% 52 | 5% 26 | 20% 476 | 5% 95 | 5% 67 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5% 613 | | | | |
| West Ave | | | | | | | | | | | | | | | | | |
| Beyer Blvd to Street A | 5% 87 | 5% 26 | 5% 119 | 10% 190 | 10% 134 | 5% 122 | 10% 214 | 0 | 20% 422 | 20% 438 | 20% 301 | 20% 263 | 5% 613 | | | | |
| Street A to Street B | 10% 174 | 15% 79 | 5% 119 | 5% 95 | 5% 67 | 5% 122 | 0 | 0 | 10% 211 | 10% 219 | 10% 151 | 10% 131 | 5% 613 | | | | |
| 1st Ave | | | | | | | | | | | | | | | | | |
| Central Ave to Spine Rd | 0 | 5% 26 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5% 613 | | | | |

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