



# DIRIDON STATION AREA PLAN

FINAL PLAN REPORT  
JUNE 2014



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Approved by the City Council, June 2014.

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For

The City of San José

Cover photo  
Frankfurt Train Station



# Table of Contents

## 1. INTRODUCTION

1.1	Executive Summary	1-1
1.2	Project Goals and Objectives	1-3
1.3	Planning Process and Schedule	1-7
1.4	Emerging Themes and Goals	1-9
1.5	Constraints and Assumptions	1-11
1.6	Report Organization	1-14

## 2. FINAL PLAN - GENERAL DESCRIPTION

2.1	Land Uses	2-1
2.2	Urban Design and Place Making	2-12
2.3	Landscape and Open Space	2-36
2.4	Primary Public Plaza Options	2-47
2.5	Station Concept and Layout	2-58
2.6	Access and Circulation	2-80
2.7	Transportation and Parking Demand Management	2-115
2.8	Parking Supply and Demand	2-136
2.9	Infrastructure Capacity and Demand	2-146
2.10	Affordable Housing	2-150
2.11	Public Art	2-161

## 3. FINAL PLAN - DESIGN GUIDELINES

3.1	Introduction	3-1
3.2	Built Form	3-3
3.3	Public Open Space	3-28
3.4	Streetscapes	3-44

#### 4. FINAL PLAN - MAXIMUM BUILDOUT

4.1	Areas, Heights and Massing	4-1
4.2	Parking Supply	4-18
4.3	Population Predictions	4-27

#### 5. NEXT STEPS

5.1	CEQA and Environmental Analysis	5-1
5.2	Key Planning Amendments	5-1

#### APPENDIX A - PUBLIC WORKSHOP #3

A.1	Introduction	A-1
A.2	Key Findings	A-3
A.3	Group Discussions	A-7
A.4	Follow-up Feedback	A-18
A.5	Next Steps	A-22

#### APPENDIX B - REFERENCES

B-1

#### APPENDIX C- RELATED DOCUMENTS

C-1

C.1	Diridon Station Area Plan - Implementation Strategy Report - June 2014	Bound separately
C.2	Diridon Station Area Plan - 10-Year Horizon Analysis Report - June 2014	Bound separately

#### COMPANION DOCUMENTS

1.	Diridon Station Area Plan - Program Environmental Impact Report - December 2013	Bound separately
2.	Diridon Station Area Plan - Traffic Impact Analysis - June 2013	Bound separately

# Acknowledgements

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# 1. FINAL PLAN INTRODUCTION

## 1.1 Executive summary

The City of San José and the greater Bay Area region have the unique opportunity to build an internationally prominent transportation center and to develop a superb destination within the area around the Diridon Station. This Station Area Plan presents an overview, a direction, and many critical aspects for the successful future of the Diridon area. The Plan integrates open space, transportation and land uses to create an expansion of Downtown San José, while respecting existing environments. The plan weaves new ideas and new development possibilities within existing city fabric and strong neighborhoods. Large proposals, such as the California High Speed Rail Diridon Station and a new Major League Baseball Stadium, are incorporated into the plan. In addition, proposals are made to strengthen existing features of the area, such as Los Gatos Creek and the current Diridon Station.

The Diridon Station Area Plan has been formulated with numerous stakeholders, including individuals, businesses, agencies, institutions, and many private and public entities. Three public community workshops, led by the Field Paoli team, and a considerable number of community events by related groups have contributed to the creation of the Plan. It has been incredibly valuable to have such a wide and diverse dialogue about important issues concerning the future of the area, and it has been the team's purpose to include many of the creative ideas into the Station Area Plan.

The Plan proposes ideas for thirty years into the future for the Diridon Station area, including the San José Arena. For any such plan to be relevant over a long period of time, it needs to make a bold framework for development, while also being flexible for change within that framework. It is impossible to predict the future with assurance, but major policies and large physical realities of the plan can be set. Development actions will occur in different forms as markets and other circumstances evolve over the coming decades. The Plan proposes the largest ideas for the Station Area and outlines many policies and physical design concepts for the

future.

Beginning with goals and objectives, the Plan describes the many aspects of the DSAP - Final Plan Report for the Diridon Station Area. Design guidelines follow, which are a tool to guide the future implementation of the plan by public and private development. An exploration of one possible future of the DSAP - Final Plan Report is presented, which considers what a maximum amount of development could be in the future. Then the Plan considers the next steps in the planning process, including environmental analysis and actions for implementation.

The Diridon Station Area Plan (DSAP) - Final Plan is comprised of this document in addition to several additional documents. Related documents are referenced in the Appendices and when printed, are separate bound reports. The related documents include:

- 10-Year Horizon Analysis Report
- Implementation Strategy Report

In addition to addition to the related documents, DSAP companion documents include:

- Program Environmental Impact Report
- Transportation Impact Analysis

San José is poised to create a model urban transportation hub within an exciting and livable downtown environment. This Diridon Station Area Plan is a vital step on the way toward the creation of an innovative urban place, a place which has the potential to serve as a model for the United States and the world.

## 1.2 Project Goals and Objectives

In July 2008, the City of San José was selected as an award recipient for the Diridon Station Area as part of the Metropolitan Transportation Commission's (MTC's) Station Area Planning Grant Program. One aspect of the Grant Program is to fund city-sponsored planning efforts for areas around future BART stations.

In November 2008 California voters approved Proposition 1A to fund the initial stages of developing a High Speed Rail (HSR) system linking Northern and Southern California. Diridon has been identified as one of the stations along the route, thus eventually establishing this location as one of the best connected multi-modal transit hubs in the Western United States.

The project goal is to develop a Station Area Plan around the Diridon Station transit center that anticipates maximum possible build-out of new transit-related development and to obtain environmental clearance under the California Environmental Quality Act (CEQA).

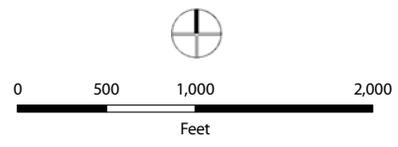
This report contains a description of the Diridon Station Area Plan (DSAP) - DSAP - Final Plan Report for the Diridon Station Area and some general design guidelines to assist the City with subsequent projects and eventual implementation. It builds upon two previous reports. The Existing Conditions Report, published in March 2010 included an evaluation of existing and proposed land uses, market, regulatory, and infrastructure conditions. The Alternatives Analysis Report, published in July 2010, contained a summary of three project alternatives and an evaluation of their relative merits, including feedback received from various stakeholders, as a basis for developing a DSAP - Final Plan Report.

This report analyzes the expansion of the existing Diridon Station and the development of land uses within the 250 acre project boundary surrounding the station. The description of the DSAP - Final Plan Report and the general design guidelines contained within this report will become the basis for the City of San José to establish regulations, implementation strategies and detailed design guidelines to encourage appropriate transit-adjacent development within the Diridon Station Area.

FIGURE I-2-1: DIRIDON STATION AREA IN CONTEXT



- Project Blocks
- Half Mile Radius
- Midtown Specific Plan
- Parks
- Creeks
- Proposed BART Alignment
- Proposed High Speed Rail
- Underground High Speed Rail Alternative
- Heavy Rail
- Light Rail



The primary project objectives are to:

- establish a land use plan and policy framework that will guide future development and redevelopment toward land uses that support transit ridership and economic development and create a world-class cultural destination;
- improve pedestrian, bicycle, motorized and transit connectivity between the station site and existing adjacent commercial and residential areas;
- develop and implement urban design standards that promote walkable, livable, and business supportive environments within the Diridon Station Area;
- provide a variety of commercial and mixed-use development opportunities, ranging from large-scale corporate or institutional sites to smaller infill development sites;
- create a highly active and lively pedestrian and bicycle friendly environment with excellent connectivity to downtown destinations and regional transit;
- expand Diridon Station to create a well-integrated center of architectural and functional significance;
- ensure the continued vitality of the San José Arena, recognizing that the San José Arena is a major anchor for both Downtown San José and the Diridon Station area, and that sufficient parking and efficient access for San José Arena customers, consistent with the provisions of the Arena Management Agreement, are critical for the San José Arena's on-going success.
- enhance the existing neighborhoods and add high-density residential-commercial mixed-use development within the study area and to act as a catalyst for similar developments in surrounding areas;
- prepare a program-level environmental clearance document which anticipates the maximum build out to facilitate subsequent project-level environmental review, possible changes to existing policy/regulatory documents, capital improvement projects, and private development proposals;
- educate and inform the public about the area planning process and Transit-Oriented Development (TOD) concepts;
- create a great place in the City of San José that is a local and regional destination.

**The Diridon Station Transit Center is located along the Union Pacific/Caltrain/Amtrak/Altamont Commuter Express (ACE) right-of-way.**

**The Transit Center, already a major transit hub, will emerge as one of the premier multimodal stations in the Bay Area as a station of the proposed BART extension to Silicon Valley and the proposed California High Speed Rail (HSR) to San Francisco to the north and Los Angeles to the south.**

FIGURE I-2-2: DIRIDON STATION AREA



## 1.3 Planning Process and Schedule

The Diridon Station Area planning process was initiated on June 2, 2009, upon the San José City Council's action to accept an MTC Station Area Planning Grant and approve a consultant contract of a two-year process to be completed by July 2011. The City of San José is the lead agency for completing the primary project objectives (described on page 1-5), and has agreed to coordinate the planning effort with the Santa Clara Valley Transportation Authority (VTA). Throughout the study, extensive efforts have been made to engage members of the business and development community, as well as residents within the immediate area and surrounding long-established neighborhoods. The surrounding areas have neighborhood associations with a history of active participation in both City and private development proposals and activities. Many of these associations have been supportive of improving transit and pedestrian access and circulation, but remain focused on ensuring that future new development within their neighborhoods will enhance the area's amenities and will not detract from the quality of life.

Between July 2009 and February 2010, the design team assembled and published an Existing Conditions Report which was used as a foundation for establishing the constraints, opportunities, emerging themes and specific goals for the project.

Between February and July 2010 the design team developed three project alternatives which were presented to the public for comment and feedback at a second community workshop. This feedback, along with input from City and Agency staff, stakeholders and transit operators was incorporated into the evolving design and helped to guide the design team towards the selection and refinement of the DSAP - Final Plan Report which is described in this report.

In April 2011, the City Council accepted the draft DSAP - Final Plan Report that defined the maximum development potential for the area, and the project description, and directed the design team to begin the environmental analysis.

The final Diridon Station Area Plan is anticipated to be heard at a public hearing by the San José City Council in the Spring of 2014. Once the City Council adopts the final Station Area Plan, City staff shall initiate a number of tasks that will further the successful implementation of the Plan. The tasks include development of:

- A draft zoning framework and private property rezoning to implement the land use and urban design vision outlined in the DSAP and to facilitate new development consistent with the Plan.
- A financing strategy which will recommend financing mechanisms to fund the development of identified public improvements.
- A public-private partnership strategy to develop the central zone of the Plan area.

Key agency stakeholders who were invited to participate in the development of the DSAP - Final Plan Report were:

City of San José Department of Transportation  
City of San José Department of Planning, Building and Code Enforcement  
City of San José Department of Housing  
City of San José Office of Cultural Affairs  
Association of Bay Area Governments  
Santa Clara Valley Transportation Authority  
Peninsula Corridor Joint Powers Board (Caltrain)

## 1.4 Emerging themes and goals

The project team discussed the set of ‘emerging themes’ at the beginning of the design process, based on the collective input received during the Existing Conditions Report phase of the project, to gain consensus on the primary goals and objectives for the development of the DSAP - Final Plan Report.

The emerging themes embody the overall spirit and characteristics the community has indicated are important to include as the DSAP - Final Plan Report developed. They can also be used as a basis for ongoing evaluation of subsequent detailed planning projects, a framework for Station Area Plan policies and for planning applications for individual projects as they come forward. These themes are listed below.

### OVERALL THEMES

- Establish the Station and surrounding area as the local, citywide, and regional destination where residents and visitors alike can live, work, and play.
- Foster a vibrant public realm throughout the Station area that supports pedestrian activity and integrates public spaces into development with new plazas, parks, and public spaces.
- Reflect the Silicon Valley spirit of innovation and San José’s rich history of transformation and progress through iconic, world-class architecture, distinctive civic spaces, and dynamic built environments.
- Create a strong sense of place for the Diridon area, and an identifier for San José as the center of Silicon Valley and the technological capital of the world.

### SPECIFIC GOALS

- **Urban Form and Structure.** Create an *urban district* in the Station Area with buildings that maximize height potential. The Station Area should accommodate a mix

of uses including commercial, office, and entertainment development.

- **Connectivity.** Establish and strengthen connections to surrounding districts and within the planning area for pedestrians, bicyclists, and motorists, with emphasis on *east-west connectivity* across SR-87 and the rail corridor.
- **Transportation.** Prioritize *pedestrian circulation and transit*. Improve pedestrian and bicycle connection to Guadalupe River from the area.
- **Compatibility with surrounding neighborhoods.** Ensure *sensitive transitions* in scale and design to surrounding residential neighborhoods.
- **Land Use.** Provide a range of commercial and residential uses. Commercial uses would include *neighborhood services* for surrounding residential areas, and a *synergistic mix* of entertainment, hotels, shopping, restaurants, and offices.
- **Open Space.** Enhance and expand *recreational opportunities* in the Station area, and establish an open space system integrated with Los Gatos Creek and Guadalupe River Park.
- **Art.** *Activate the streets, parks, and Station with art* that engages visitors and residents alike. Integrate art into infrastructure to humanize and enliven standard features.
- **Parking.** *Disperse parking* in different locations in the planning area and beyond to ensure easy walking access to destinations

## 1.5 Constraints and assumptions

Two very significant variables - the City's proposal to locate a new baseball park within the study area and the status of the State of California proposed high speed rail project - have had an important influence on the evolution of the preferred station concept and land use plan and are discussed below.

### **NEW BASEBALL BALLPARK**

The City of San José is currently working to attract the Oakland A's to a new purpose built state-of-the-art ballpark in San José, and is waiting for a decision by the Major League Baseball (MLB) on whether this territorial change is permissible and whether the Oakland A's are able to agree on a set of terms and conditions for their relocation to San José. The identified site for a future baseball ballpark is within the Diridon Station study boundary. Conceptual plans have been developed and a Supplemental Environmental Impact Report (SEIR) has been certified which demonstrate how a 32,000 - 36,000 seat ballpark can be located within project sub-area G. Although the MLB decision has not been reached by the time of writing this report, the City of San José is confident that the A's will eventually be able to relocate and has instructed the design team to include the new ballpark in the DSAP - Final Plan Report.

### **HIGH SPEED RAIL (HSR) ALIGNMENTS**

The California High Speed Rail Authority's (CHSRA) prefers an alignment through the Diridon Station Area along an elevated structure above the existing surface Amtrak/Caltrain/ACE tracks to the north of the station and at the station itself. To the south the alignment would curve to the east as it leaves the station heading south, and follow Interstate 280 and State Route 87. The tracks climb high enough as they leave the southern end of the station to rise above the freeways and then follow their route until the tracks pass into the Monterey Corridor. Figure 2-2-3 shows the elevated HSR route as it passes through the DSAP project area. An alternative underground alignment is shown in Figures 2-1-1,

2-2-1, 2-2-2, and 2-6-10. The underground alternative will have no impact on the overall build-out and circulation plan, but would require an underground connection between the high speed train platforms and the new station building (see Figure 2-5-8).

## **OTHER CONSTRAINTS**

A number of other constraints and goals were either set at the beginning of the design process or evolved during the design review meetings with the client group and are listed below.

### ***Realignment of Autumn Parkway:***

The proposed realignment of Autumn Parkway to connect Coleman Avenue in the north with I-280 in the south. Drawings of this revised road network were given to the design team and this new alignment was recognized in the DSAP - Final Plan Report.

### ***Completion of the Los Gatos Creek Master Plan:***

Making the final connection between the northern and southern sections of the creekside park and trails by completing the section between Santa Clara Street and Park Avenue is a high priority for the City and the community. The DSAP - Final Plan Report show this final piece in place as part of the approach to the distribution and connection of public open space.

### ***Protection of employment based zones:***

City staff directed the design team to minimize the conversion of lands currently designated for employment uses to residential uses. This direction is consistent with the Envision San José 2040 goal to preserve existing and create new jobs to make San José a regional employment center. This direction is also consistent with this Plan's goal to transform the Diridon Station Area into a destination, with transit supportive employment uses focused within walking distance of the station. Given these goals, the DSAP - Final Plan Report looks at ways of intensifying the employment opportunities on land currently used for employment.

***New community park at existing Fire Department training yard:***

The existing facility, bounded by Park Avenue, South Montgomery Street, West San Carlos Street and the railroad tracks has been identified by The City as an opportunity site for a new public park if the fire training station chooses to relocate elsewhere within San José. This area is shown as a large new public park with the Los Gatos creek running through it in the DSAP - Final Plan Report.

***San José Arena / Arena Management Agreement:***

The City will pursue best efforts to maintain a sufficient supply of parking and efficient vehicular and pedestrian access for San José Arena customers in compliance with standards set forth in the San José Arena Management Agreement to ensure the continued vitality of the ***San José Arena***.

## 1.6 Report Organization

This report contains a description of the DSAP - Final Plan Report for the Diridon Station Area and some general design guidelines to assist The City with subsequent projects and eventual implementation.

Chapter 2 includes a general description of multiple aspects of the DSAP - Final Plan Report arranged into specific categories which generally follow the same format as used in the previous alternatives analysis report.

Chapter 3 contains some general design guidelines for size, shape and location of major built elements and public open spaces, including some general streetscape and landscaping guidelines.

Chapter 4 includes a detailed description of two specific aspects of the DSAP - Final Plan Report which required actual counts and calculations - the maximum build-out potential of the entire project area and the size, distribution and availability of parking supply to meet the predicted cumulative demand.

Chapter 5 describes how this report fits within the overall project framework and how the next steps in the process will be environmental analysis and clearance.

Appendix A illustrates and summarizes the information presented at Community Workshop #3, which was an integral part of the design process for the DSAP - Final Plan Report, and includes a summary report of community feedback received during the event.

Appendix B includes references used in this report and Appendix C states DSAP related and companion documents.



## 2. FINAL PLAN GENERAL DESCRIPTION

## 2.1 Land Uses

This section presents the overall land use structure for the Final Plan. The Land Use Diagram and classifications provide guidance for the location and type of land uses proposed by the Plan, which are further refined by urban design direction presented in the following section.

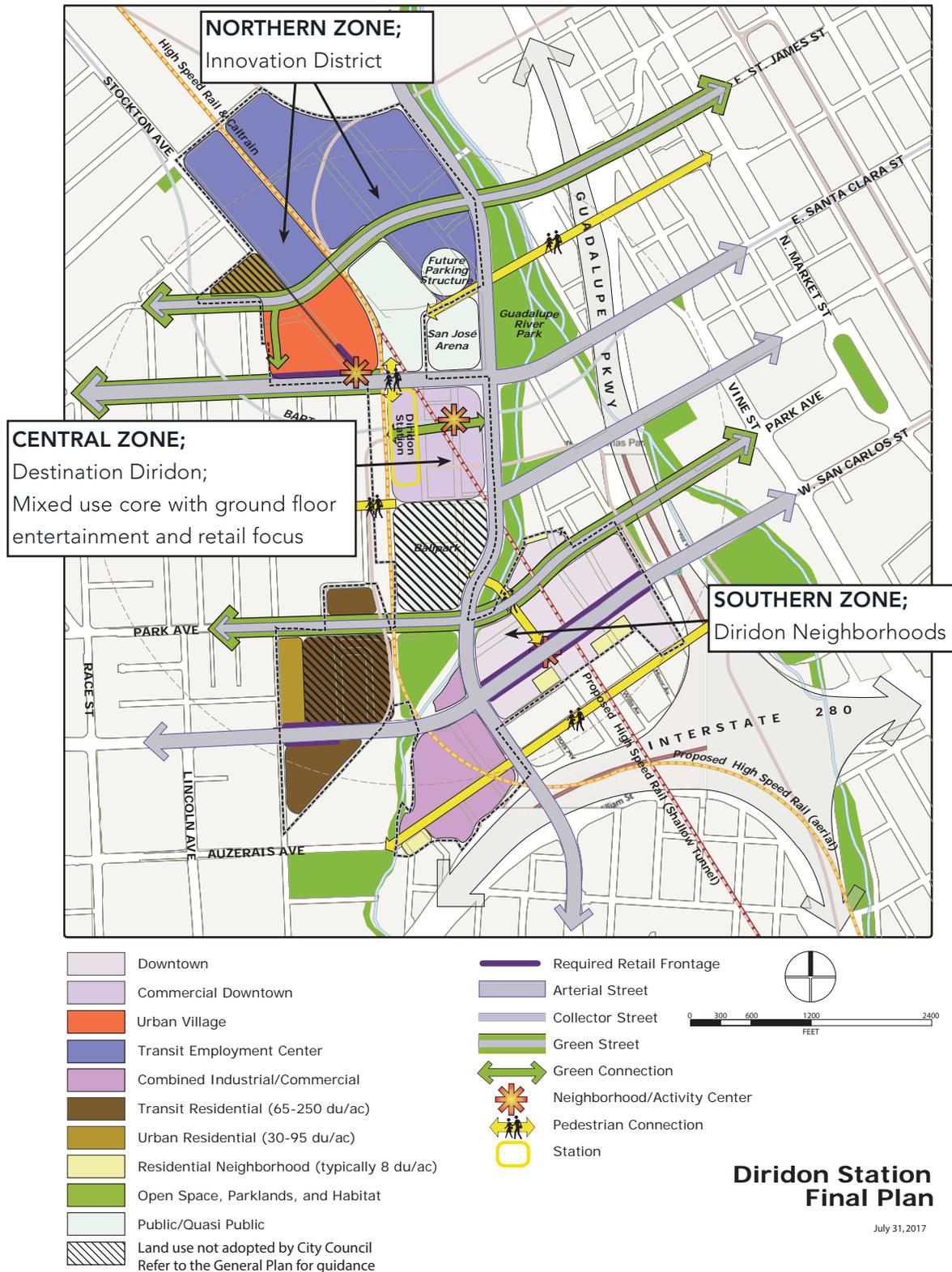
### LAND USE DIAGRAM

The Final Plan establishes a mix of vibrant uses and districts that build off of the synergy and activity of San José Arena, the proposed future Ballpark, and an expanded Diridon Station. Employment, retail, and entertainment uses are focused at the Diridon Station core to support transit activity and establish the area as a region-wide destination. Residential and supportive commercial uses are located in the urban neighborhoods section of the Plan and are within an easy walk to the Station core. The neighborhood components are located strategically in order to minimize impacts from transportation infrastructure and to strengthen existing neighborhoods. Figure 2-1-1 illustrates the Land Use Structure for the planning area.

At the center of the Station Area, a high-intensity, entertainment-oriented mixed-use core surrounds and encompasses the Station. Retail and entertainment uses activate the ground level and are oriented along a linear pedestrian connection between San José Arena and the proposed future Ballpark, as well as around a new public plaza adjacent to the Station. Hotel and office uses are located on upper floors and provide additional day and evening activity within the Central Zone. A mix of active retail and office uses could also be extended into the Station itself, increasing the opportunity for development in the immediate Station area.

North of the ballpark, the focus of the Final Plan is a high-intensity business district in an urban format. Opportunities for innovative office, research and development, and incubator space for product and business development are focused in this area. Ancillary uses

FIGURE 2-1-1: DIRIDON STATION AREA - FINAL LAND USE PLAN



might include some hotel, retail, and industrial space as support for the area. West of Stockton Avenue, the uses are compatible with and build off of the mixed-use neighborhood character of The Alameda and existing high density residential uses along Stockton Avenue. The mix of uses includes retail at the ground level, focused along The Alameda, and residential uses primarily along the west side of Stockton Avenue.

To the south of the proposed future Ballpark, a mixed-use hotel and office oriented district establishes a new activity center at Autumn Parkway and West San Carlos Street with easy access to the proposed future Ballpark and I-280. Development is oriented to key open spaces like the proposed future approximately eight-acre park at Park Avenue and Autumn Parkway and Los Gatos Creek. Mixed-use residential and commercial development extends along West San Carlos Street, providing a walkable environment with key neighborhood services for the Delmas Park neighborhood to the east and new Transit Residential development to the west. South of West San Carlos Street, between the Caltrain corridor and Autumn Parkway, intensified commercial development is proposed future, including office and employment uses. This area will also be able to capitalize on its proximity to both the Station and I-280.

Several zones in the planning area are designated for required retail frontage along a main arterial. These areas include the West San Carlos Street corridor east of Autumn Parkway and west of the VTA light rail corridor, and development along The Alameda. The Central Zone will also have a required retail frontage along the pedestrian district and public plaza.

Since its opening some two decades ago as the home of the San José Sharks, the San José Arena has consistently ranked among the 10 busiest indoor facilities for non-sporting entertainment events. Preserving the extraordinary success of Downtown's "anchor tenant" appears paramount and is reflected in the Land Use Plan.

Although densities will increase, and parking ratios will drop over time, it is imperative that Diridon's development occurs in a coordinated fashion with its transportation infrastructure to ensure adequate parking supply for the San José Arena and avoid traffic

problems in each phase of development.

## LAND USE CLASSIFICATIONS

The land use designations below define the uses and urban form of future development in the Diridon Station Area Plan area. These land use designations are not specific to this Master Plan but are existing designations within the Envision San José 2040 General Plan and are applied elsewhere in the City. In addition to being consistent with the given land use designation below, new development should also be consistent with the Urban Design guidelines and other policies set forth in this Plan. Urban design guidelines for the Diridon Station Area are provided in Section 2.2 of this Plan.

### *Downtown*

The area within the Southern Zone, east of Autumn Parkway, is primarily designated with a Downtown land use designation. This land use designation supports residential uses as well as non-residential uses including office, retail, service, hotel, medical, and entertainment uses. The designation also supports residential and commercial uses in a mixed-use format.

As described in the Envision San José 2040 General Plan, the Downtown designation allows residential densities up to 350 units to the acre and Floor Area Ratios (FAR's) up to 15.0. While residential densities approaching 350 dwelling units to the acre may be achievable under the Diridon Station Area Plan through the development of housing projects that include very small units, new commercial development could not achieve the FAR's allowed under the General Plan given the height guidelines of this Plan and the need for new development to be compatible with the surrounding neighborhood. New development should, however, be built as relatively high densities/intensities consistent with the Plan's height guidelines (Figure 3-2-1) and compatible with the surrounding residential neighborhood.

All development within this designation should support pedestrian and bicycle circulation, and encourage transit ridership. Uses that are automobile oriented are discouraged and drive-through uses are not supported. To help activate the corridor, new residential development along West San Carlos Street should incorporate ground floor commercial uses along this street.

### ***Commercial Downtown***

The Mixed Use Station Area is designated with a Commercial Downtown General Plan designation. The Mixed Use Area is defined by the rail corridor to the west, Santa Clara Street to the north, Autumn Parkway to the east, and West San Fernando Street to the south. Consistent with the Commercial Downtown designation, the Mixed Use Area is intended to be a vibrant mix of retail, entertainment, office, and hotel development, with retail and entertainment uses located at the ground level and high-intensity hotel or office development above. Residential uses are not allowed. Emphasis in the Mixed Use Areas is placed on creating a walkable, pedestrian environment with active uses at the street edge. Parking should be structured and wrapped by active uses.

In order to intensify development adjacent to the station, the minimum FAR is 2.0; however development adjacent to the station should generally be built at higher FARs. Given the FAA Airport Height restrictions it is anticipated that development will not exceed an FAR of 6.0. Nevertheless, as Airport operations and technology change, height restrictions could become less restrictive, allowing development to be developed at higher FARs; the maximum FAR permitted in this Commercial Downtown designation is 15.0.

### ***Urban Village***

Two areas are designated with an Urban Village land use

designation. The first is located on the west side of Stockton Avenue between The Alameda and Julian Street and the second area is located on the east side of Stockton Avenue between Julian Street, the Union Pacific Railroad and The Alameda. The Urban Village land use designation supports a wide variety of commercial, residential, and institutional land uses with an emphasis on establishing an attractive and pedestrian-oriented urban form. This land use designation supports a floor area ratio (FAR) of up to 10.0 and a residential density of up to 250 dwelling units to the acre. Given the building height limits in the Urban Design Chapter of the DSAP Draft Plan (Figure 3-1-1) and the FAA height limits resulting from the San Jose International Airport, the intensities and densities of new development under this land use designation would, however, be significantly lower than these upward maximums. New development along The Alameda and the portion of Stockton Avenue adjacent to the intersection of The Alameda would be required to include active and functional retail space fronting the street, consistent with the location shown on Figure 2-1-1: Diridon Station Area Land Use Plan.

To further the City's Envision San José 2040 goal of transforming San José from the bedroom community for Silicon Valley to a regional employment center, and to support locating transit supportive employment uses adjacent to the Diridon Station, the Urban Village land use designation, as applied to Diridon, has a minimum commercial FAR of 0.5 for projects containing residential uses. This designation would therefore only support residential development in a vertical or horizontal mixed-use format that includes commercial uses or square footage that is equal to or greater than a 0.5 FAR for a given project. The commercial component of a project would need to be built simultaneously or prior to the construction of the residential component.

### ***Transit Employment Center***

The properties along the east side of Stockton Avenue, between

the Alameda and Lenzen Avenue, and north of the San José Arena are designated Transit Employment Center to provide lands for dense Driving Industry type uses within walking distance of the Diridon Station. The lands designated Transit Employment are located in the Innovation Area of Diridon. The Driving Industry type businesses envisioned in this area include high technology and green tech type businesses that would place a premium on being adjacent to the Diridon Station and the high level of transit access it provides and will provide. Per the Envision San José 2040 General Plan the uses allowed in this land use designation include office uses and industrial-type uses including research and development, manufacturing, assembly, and testing. Retail shops and services are also permitted in the first two floors of buildings. Given the proximity of transit, uses that have a high number of employees relative to building square footage are anticipated, with uses that have few employees likely to locate in other less transit accessible areas in the city. Regardless of use, new development should orient buildings towards public streets and include features to provide an enhanced pedestrian environment.

### ***Combined Industrial/Commercial***

This designation is applied to the portion of the Diridon Station area generally south of West San Carlos Street and west of Bird Avenue. This area is envisioned as a location for Driving Industry types of uses as well as neighborhood and downtown serving commercial uses along Bird Avenue.

As discussed the Envision San José 2040 General Plan, this category allows a significant amount of flexibility for the development of a varied mixture of compatible commercial and industrial uses. Given the desire for flexibility the allowed FAR varies from 0.25 to 12.0; however, given the FAA airport height limitations and the urban design guidelines of this Plan, the FAR will not likely exceed 8.0 to 10.0.

***Transit Residential (65-250 du/ac)***

This classification is intended for transit integrated residential development and/or vertical or horizontal residential/commercial mixed use development within walking distance of the Station and along key transportation corridors like West San Carlos Street. While this land use designation allows between 50 to 250 dwelling units to the acre in the Envision San José 2040 General Plan, the sites designated Transit Residential in the Diridon Master Plan have a minimum residential density of 65 dwelling units to the acre to facilitate the development of residential densities that are supportive of the planned High Speed Rail and BART systems and the existing Caltrain system. Furthermore, while the upward density maximum is 250 dwelling units to the acre, the densities on Transit Residential properties are not anticipated to exceed a density of 175 dwelling units to the acre given the FAA airport approach zone height limits and the urban design guidelines of this Plan. The commercial mixed use portions of the properties designated Transit Residential should be focused as retail frontage along West San Carlos Street as identified in the Land Use Diagram. Hotels are a permitted use under this Land Use Designation. For the properties designated Transit Residential just north of Park Street to West San Carlos Street, commercial or the non-residential components of residential projects (i.e. parking lots or structures, open spaces, etc.) should be located adjacent to the existing Union Pacific Railroad tracks and planned High Speed Rail viaduct. Given the potential noise, vibration, and aesthetic impacts, residential uses should not be located directly adjacent to these train lines unless a residential projection can be designed to mitigate these impacts and create a high quality living environment.

All development within the Transit Residential Designation is required to be pedestrian oriented with emphasis on activating the

ground level; pedestrian entries and windows should be located along the sidewalk and buildings should include architectural elements (like awnings, changes in materials, articulated building façade, etc.) that add visual interest. Average building heights should be between four and six stories, with up to ten stories where heights and neighborhood compatibility allow.

### *Urban Residential (30-95 du/ac)*

Sites with this designation are intended for relatively high density urban residential development in 1) the Delmas Park Neighborhood between Park Avenue to the north and Columbus Avenue to the south; 2) the area northwest of the intersection of Stockton Avenue and The Alameda; and 3) in select locations west of the Union Pacific railroad tracks, providing a transition to lower density residential uses. A mix of residential densities and housing types is encouraged under this designation, with a density range of 30 to 90 dwelling units per acre. Emphasis on contextually appropriate design and densities will ensure compatibility with existing residential uses. The City may reduce allowable density adjacent to low density residential uses for design compatibility. Development along the street edge should have individual entries to maintain the pedestrian orientation of the neighborhood. Predominant building heights should range from three or four stories adjacent to lower density residential development to six stories near higher intensity development.

The Urban Residential designation also allows commercial uses to be mixed with residential uses in a vertical or horizontal arrangement. The commercial uses are intended to provide shops and services to nearby residents, employees and transit riders. The commercial spaces could take the form of live/work units or flex space that could be used initially as living space but could be converted to commercial or live work space over time. The

commercial uses in this land use designation should be focused along West San Carlos Street and along or adjacent to The Alameda. The minimum combined FAR for both commercial and residential uses is 1.0 with a maximum combined FAR of 4.0.

***Residential Neighborhood (typically 8 du/ac)***

This land use designation is broadly applied to the established single family neighborhoods, both suburban and traditional residential neighborhoods that comprise most of San José. The densities of new residential development within lands designated Residential Neighborhood should reflect the existing residential densities within a given neighborhood, which in San José is typically 8 dwelling units to the acre. In the Diridon Station Area Plan this land use designation is only applied to the properties located on the south side of Auzerais Avenue, just east of Los Gatos Creek, which form the northern boundary of the established Hannah Gregory Neighborhood. This designation would allow commercial development on these properties provided such development does not negatively impact the Hannah Gregory Neighborhood to the south.

***Open Space, Parklands, and Habitat***

Park and recreation areas are essential for new and existing neighborhoods within the Diridon Station Area. An approximately eight-acre recreational park is proposed between Park Avenue and West San Carlos Street along Montgomery Street/Bird Avenue. Additional park space is proposed throughout new residential and mixed-use development and includes open space, parks, recreation areas, public plazas, and development of public facilities such as restrooms, playgrounds, educational and visitor's centers, or parking areas that serve these facilities. This plan also includes existing and recommends new open space and habitat area along Los Gatos

Creek within the planning area. It must be noted, however, that most of the Los Gatos Creek is outside of the Diridon Station Area Plan area and, except for the city owned fire training center south of Park Street, this plan does not establish land uses adjacent to the creek. Figure 2-1-1 identifies the private properties along the west side of Los Gatos Creek between Santa Clara and Park Streets as Park/Open Space, because these properties are identified in the Downtown Strategy for additional park land. Until the City can purchase these properties for parkland, they could be redeveloped, consistent with the Envision San José 2040 General Plan, which designated them as Commercial Downtown. Similarly, the private properties designated for Parks and Open Space and located within the triangle defined by Los Gatos Creek, Montgomery Street and West San Carlos Street, could be developed with uses consistent with the land use designation in the Envision San José 2040 General Plan if the City is not able to purchase these properties; these properties are designated Combined Industrial/Commercial in the General Plan. A more detailed explanation of open space can be found in Section 2.3, Landscape and Open Space.

### ***Public/Quasi Public***

Uses permitted within this classification include government, civic, cultural, educational, and public services such as the San José Arena and related parking facilities.

### ***Required Retail Frontage***

Retail plays a role in defining key pedestrian streets and neighborhood centers by providing restaurants and services to residents and workers in the area. The Required Retail Frontage aims to ensure that retail and commercial uses are available within residential areas to reduce the need for driving in the planning area. The street frontages with required frontage at the ground level are shown in Figure 2-1-1.

## 2.2 Urban Design and place making

### INTRODUCTION

It became clear to the design team early in the design process that the project study area could naturally be broken down into three primary sub-areas, each of which has very different characteristics and opportunities for development potential. These three sub-areas are illustrated in Figure 2-2-1 and can geographically be described as;

- NORTHERN ZONE– all land in sub-areas A, B and C to the north of Santa Clara Street
- CENTRAL ZONE– all land in sub-areas G and H, between Santa Clara Street and Park Avenue, centered on the new and expanded station and including the new ballpark
- SOUTHERN ZONE the three predominantly residential/mixed-use districts south of Park Avenue in sub-areas D, E and F

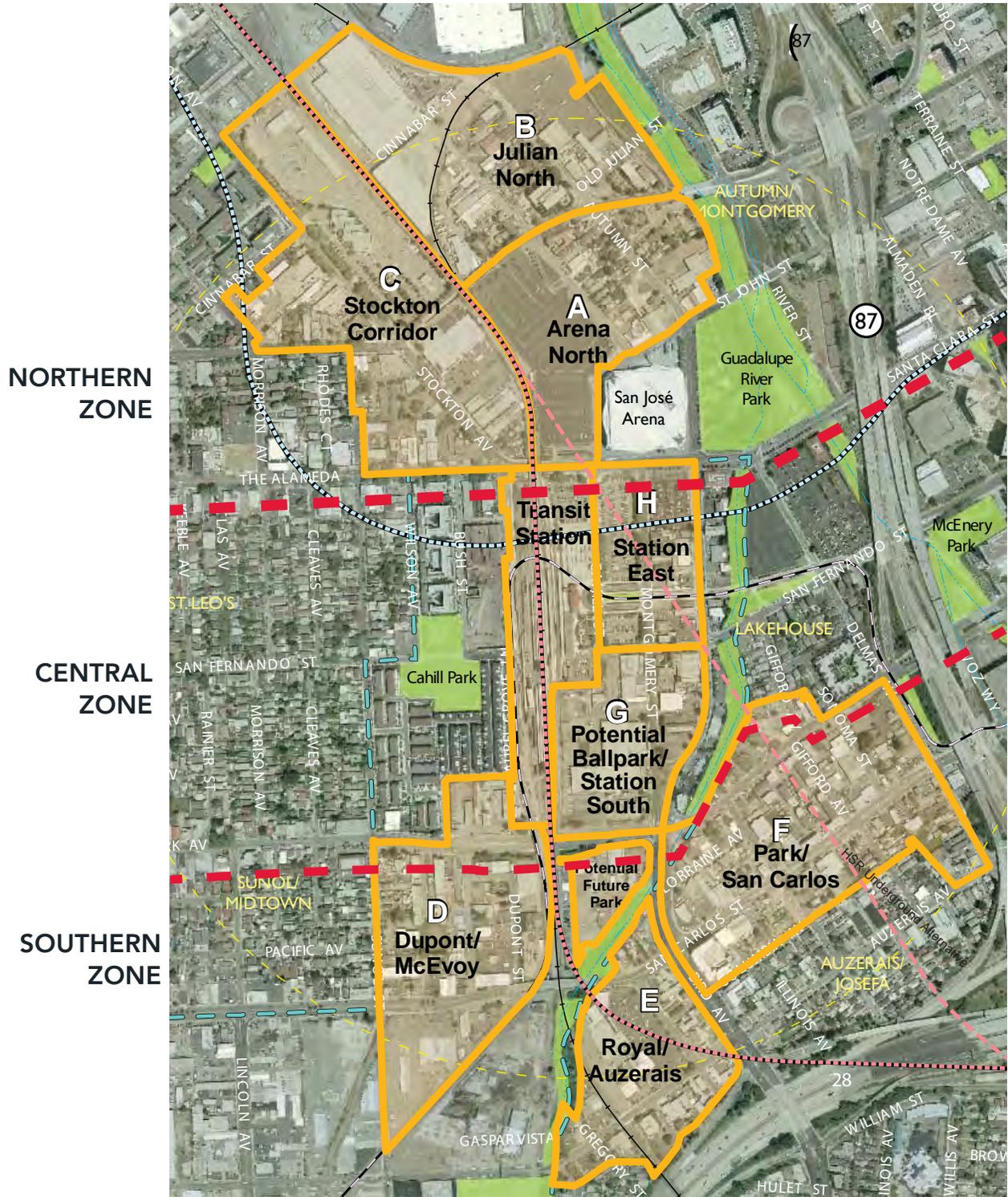
### IDENTITY

Furthermore, it also became apparent during the evolution of the three project alternatives and their eventual refinement into a single scheme that the character of each of these three zones could be arranged around three overarching themes, due partly to the existing uses to remain in place as well as the constraints and opportunities for new development;

- NORTHERN ZONE– the innovation zone
- CENTRAL ZONE– the commerce and entertainment zone
- SOUTHERN ZONE– the urban neighborhoods zone

In addition, the new and existing developments in each of these three zones could be arranged around east-west spines creating three main street axes, each lending an unique characteristic to the plan, as illustrated in Figure 2-2-2.

FIGURE 2-2-1: PRIMARY ZONES



Aerial alignment through Diridon Station area provided by HSR Business Plan 11/11/11.

- NORTHERN ZONE– Julian Street for business and freeway access
- CENTRAL ZONE– The Alameda and Santa Clara Street for retail, commercial and entertainment access and direct connection to downtown
- SOUTHERN ZONE– San Carlos Street for access to the various neighborhoods and concentration of neighborhood serving retail

## CONNECTIVITY

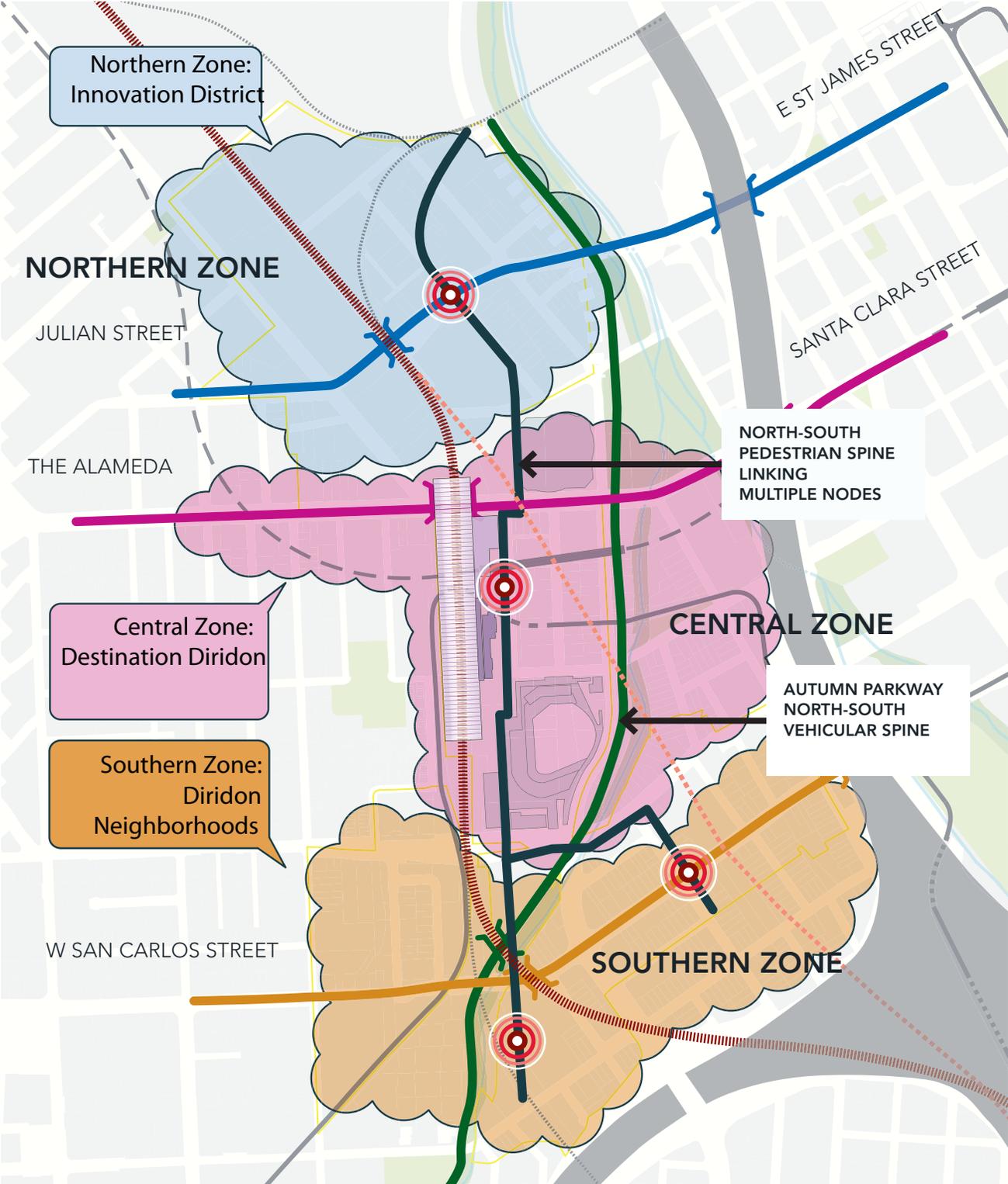
During the outreach process in the early information gathering phase of the project, many stakeholders expressed a strong desire to see stronger east-west connections to help overcome the physical presence of the freeway and railroad overpasses which cut north-south through the area. The intensification of development along each of the three primary spines described above will give them a pivotal presence in each district and will also help to extend the connectivity to the neighborhoods beyond the study area, especially the residential communities to the west and downtown to the east.

In addition to these east-west connections, it is important to identify strong north-south connections to help tie the three districts together and facilitate ease of movement between them. These are illustrated in figure 2-2-2.

The Autumn Parkway Project, when complete, will provide one of these north-south routes by connecting Autumn Parkway all the way from Coleman Avenue in the north (providing convenient airport access) to Bird Avenue in the south (providing convenient freeway access).

The north-south connectivity which Autumn Parkway will provide is intended primarily for vehicles. In addition to this, there are

FIGURE 2-2-2: IDENTITY ZONES



opportunities to provide separate connections and routes for bikes and pedestrians. The most obvious of these is the riverside trail within Guadalupe Parkway. However, with the completion of the Los Gatos Creek Master plan and creek-side trail between Santa Clara Street and Park Avenue, along with improvements to the intersection of Park Avenue and Bird Avenue, the trail network is significantly enhanced. This will provide pedestrian and bike connections right through the project study area and beyond, linking to a much wider trail network which extends to the San Francisco Bay in the north into the Santa Cruz mountains in the south.

A second north-south primarily pedestrian spine has also been identified which passes through the heart of the study area and could connect some portions of the route that already exist and place a pedestrian emphasis on this connectivity. This could become a key 'urban' spine over time. The route extends from the Guadalupe Parkway in the north, crosses Julian Street and then travels north-south alongside the western edge of the San José Arena. After crossing Santa Clara Street, the route could pass through the plaza in front of the new station; follow the new sidewalk south of the station and then pass either along-side or within the ground floor of the new ballpark. A conveniently located pedestrian crosswalk on Park Avenue would then connect into the new community park, which affords access to the Los Gatos Creek trail and continues to the south beyond the study area. Wayfinding features should be incorporated into this pedestrian corridor to enhance it's identity.

Due to the nature of the existing pieces of this route, it probably won't be a direct straight line, but it is important to establish the route as a continuous one and for City staff to be vigilant in ensuring that new sections are added into the route as the various parcels along the way come up for redevelopment. The route could also be a catalyst for an Art Program to enhance the pedestrian experience.

## THE FINAL PLAN – A ‘TEST FIT’

A project of this magnitude (some 250 acres of land) with the majority of the land currently in multiple small private ownerships is inevitably going to be realized gradually and evolve over the next 25 to 30 years.

It is important to recognize that the final plan layout which is described in detail in this chapter is more of a ‘test-fit’ than a prescribed plan. There are many ways in which the study area could be laid out and developed around the various fixed elements such as the station, track alignments, the San José Arena and the ballpark and still be consistent with the goals and ambition of the master plan. The ‘test-fit’ plan is illustrated in Figures 2-2-3 and 2-2-4.

For High Speed Rail in the Diridon Station area several alignments were proposed by the California High Speed Rail Authority (CHSRA). The Authority selected an alignment in 2011 with elevated tracks, which is shown in the “test-fit” plan in Figures 2-2-3 through 2-2-10.

One of the primary objectives of this study is to determine the maximum possible build-out which could be achieved over time within the known constraints and opportunities. This is necessary for environmental analysis and clearance in the EIR phase of this project. This environmental clearance will define the maximum acceptable levels of development and their associated environmental impacts within which individual projects can be planned.

It will require vigilance from City staff to best determine how each individual project, as it comes forward, fits within and advances the vision of this Station Area Plan and how the plan may need to be updated and adjusted to accommodate the impacts of individual

FIGURE 2-2-3: TEST-FIT PLAN - SPACES AND PLACES

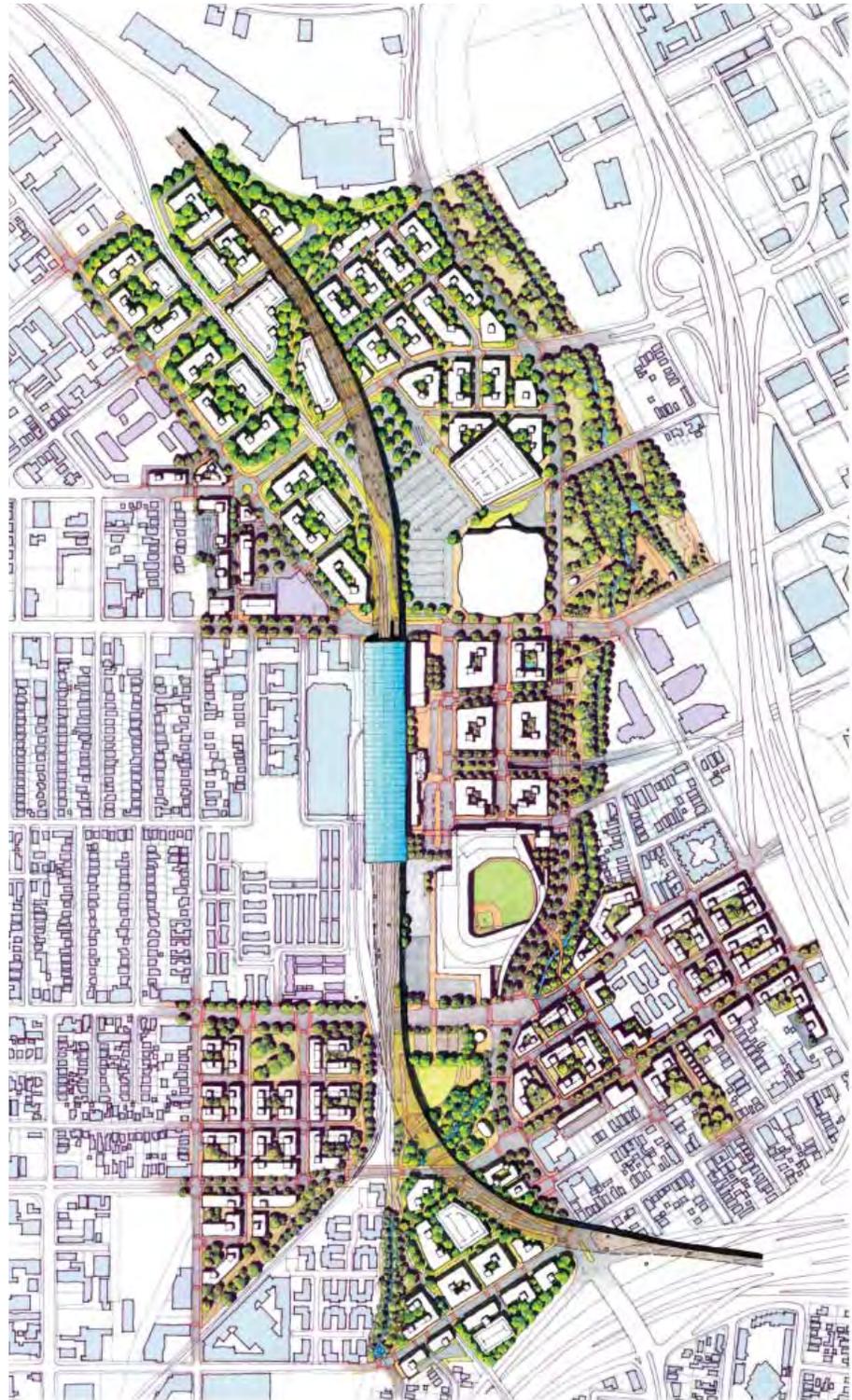
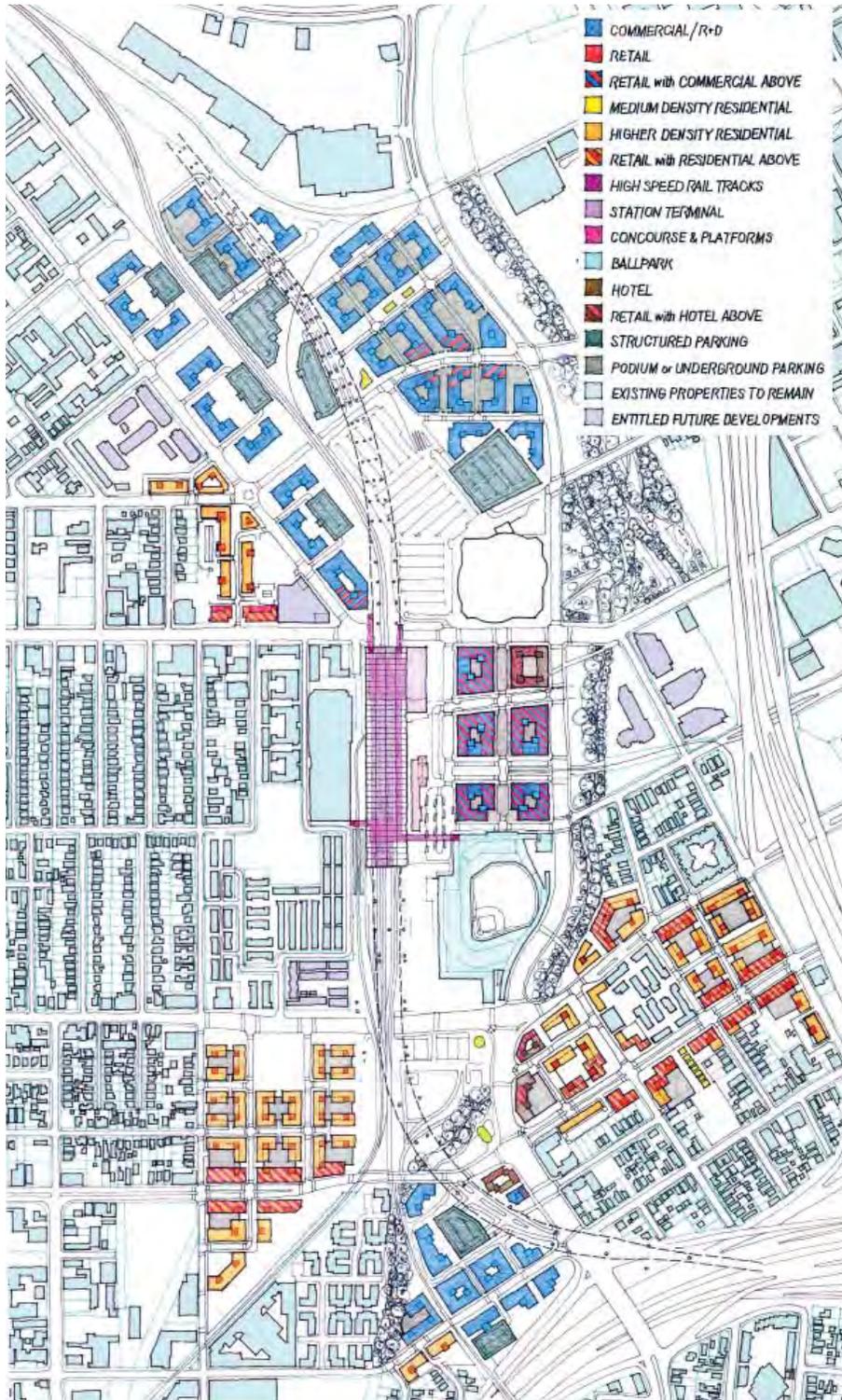


FIGURE 2-2-4: TEST-FIT PLAN - BUILDINGS AND USES



projects as they are implemented, while maintaining maximum flexibility for future proposals.

## THE 'TEST-FIT' FINAL PLAN – DETAILED DESCRIPTION

### NORTHERN ZONE – THE INNOVATION ZONE

In this zone, the new high speed rail tracks are elevated and follow the alignment of the existing at-grade heavy rail tracks. The Autumn Parkway project is proposed to connect Coleman Avenue to Santa Clara Street and overlook Guadalupe Parkway to the east. The more intermittently-used at-grade heavy rail tracks remain operational, one which skirts the northern boundary of the study area and a second one which cuts through the area, curving away to the east as it travels north of Julian Street.

The northern zone of the 'test-fit' plan is illustrated in Figures 2-2-5 and 2-2-6.

The San José Arena and its adjacent surface parking lot will remain in place, with regular patron access from both Santa Clara Street and Julian Street, and service access from Autumn Parkway. The new plan also indicates a new 900+ space parking structure immediately to the north of the San José Arena (block A6 on Figure 2-2-6). The structure is predicted to be necessary for future parking demand for both development in the area and for San José Arena customers. In communications between the City of San José and the San José Arena, the provision of the structure or an equivalent number of available parking spaces was agreed in concert with other parking policies. The City has stated that in the event the planned 900 space parking garage is not constructed, then the developer of that site and possibly surrounding sites would be responsible for providing the 900 parking spaces elsewhere in order to meet the parking demand requirements. The exact size, shape and location of this structure is yet to be finalized with City staff,

FIGURE 2-2-5: TEST-FIT PLAN - SPACES AND PLACES - NORTHERN ZONE



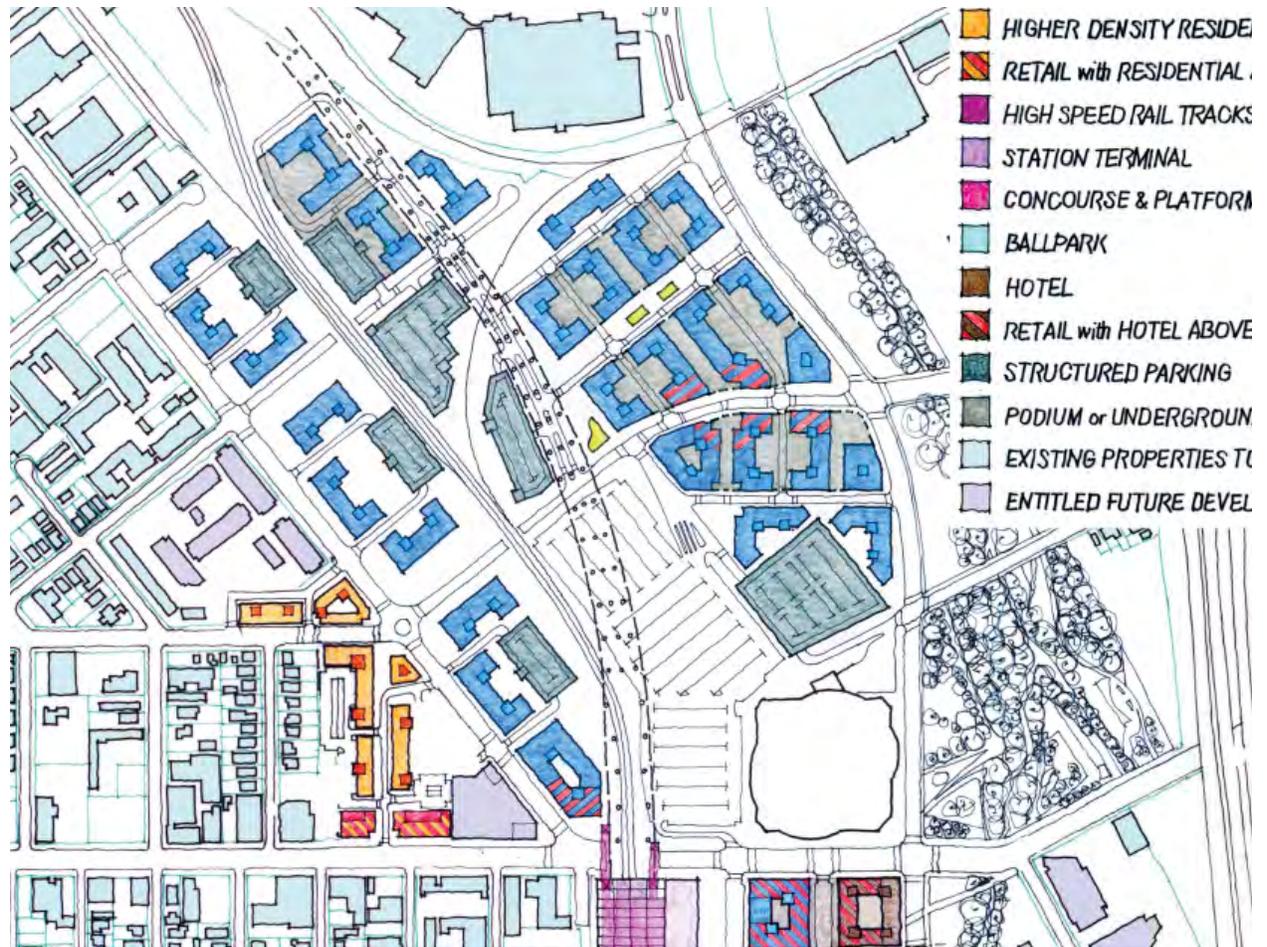
and this may ultimately affect the layout of roads and development blocks in the immediate area. A coordinated operations plan for this facility will be developed with City of San José staff.

This northern zone of the study area is the closest zone to the airport and therefore subject to the most stringent building height restrictions (Height constraints are described in more detail in section 3.1 of this report). Generally buildings in this zone will be restricted to 5 to 7 stories high.

The primary urban design and place making proposals for the northern zone are:

- A series of 'green fingers' which reach out from Guadalupe Parkway and penetrate the new district. One of these follows the route of the existing heavy rail tracks referred to above, creating linear pedestrian parks alongside the tracks, and a second one follows Julian Street between Autumn Parkway and Stockton Avenue and continues southward to connect to The Alameda with a new mid-block paseo
- Intensification of new commercial and research + development facilities to significantly increase the employment base in this district. The target sectors for new development in this area will be innovative office environments, product research and development, emerging 'green' businesses and incubator space for high-tech start-up companies, to help promote this district as a high-profile hotbed of innovation. These facilities will be developed in an urban format to align with the goals and vision of urban Diridon Plan. This will maximize the number of jobs, unlike traditional suburban corporate campuses with low FAR's and significant surface parking.
- Infill residential uses to the west of Stockton Avenue to complement the existing neighborhood character, while increasing overall density to support "main street" commercial on The Alameda.

FIGURE 2-2-6: TEST-FIT PLAN - BUILDINGS AND USES - NORTHERN ZONE

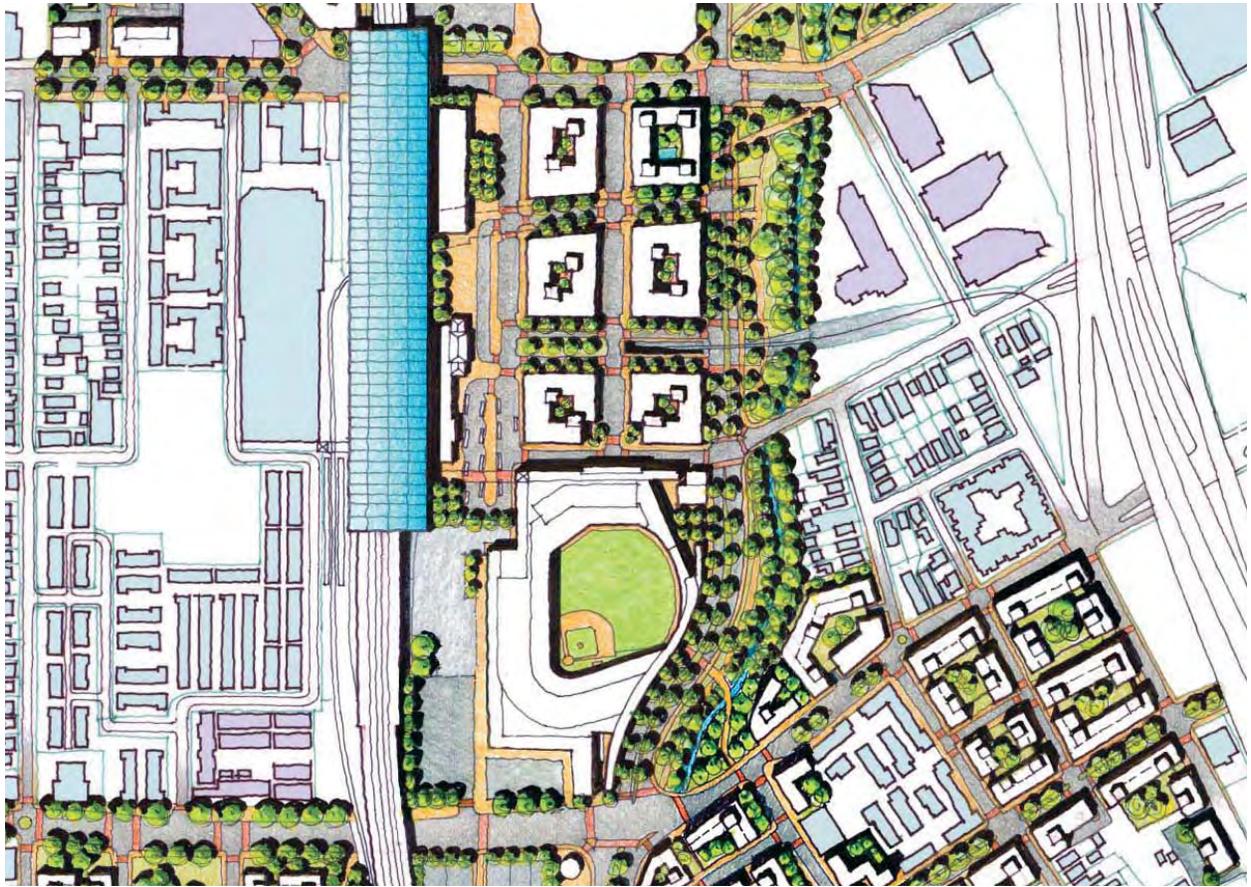


- Ground floor street-facing retail in all new buildings fronting onto The Alameda, with residential units above
- Modest setbacks to the buildings around The Alameda/ Stockton Avenue intersection to create a small new urban plaza to mark the 'arrival' point into this neighborhood from the east. This plaza could also become an important part of the station arrival sequence if pedestrian entrances to the station concourse were accessible from within the plaza or surrounding buildings
- Shared parking structures associated with groups of buildings and shielded from view by the arrangement of the buildings
- Shared parking structures located close to the elevated high speed rail tracks and used as a 'buffer zone' between the tracks and the occupied buildings
- Improved north-south pedestrian and bike connections along the new spine which extends the existing path along the western side of the San José Arena
- New commercial buildings lining the western side of Autumn Parkway overlooking and enjoying views of Guadalupe Parkway
- Two new underpasses below the rail road tracks at Lenzen Avenue and Cinnabar Street to improve east-west connectivity north of Julian Street for vehicles, bikes and pedestrians. Both of these are treated as 'green fingers' which connect to the network of 'green fingers' to the east of the tracks

### **CENTRAL ZONE - THE COMMERCE AND ENTERTAINMENT ZONE**

This zone includes the new high speed rail terminal at the northern end and the new ballpark at the southern end, with new commercial development between them. The 1400 ft. long high speed rail platforms and the canopies or enclosure above them

FIGURE 2-2-7: TEST-FIT PLAN - SPACES AND PLACES - CENTRAL ZONE



occupy most of the western edge of the zone, overlooking the residential area to the west. In this central zone the high speed rail tracks and platform are located directly above the existing at-grade heavy rail/Caltrain alignment.

This zone will also include the proposed realignment of Autumn Parkway project, creating a continuous eastern edge overlooking the newly restored Los Gatos Creek and trail, which is proposed to be complete in time for the implementation of this project.

The central zone of the 'test-fit' plan is illustrated in Figures 2-2-7 and 2-2-8. The emphasis in the central zone is a high intensity mixed-use, entertainment and business core with ground floor street-facing retail, sports and entertainment uses to take advantage of the proximity to the San José Arena to the north, the ballpark to the south, the high speed rail terminal to the west and the direct connection to the existing downtown to the east.

Building height in this zone is generally restricted to seven to nine stories due to the airport flight path constraints.

The primary urban design and place making proposals for the central zone are:

- Linear 'airport style' station layout with discrete commuter and high speed rail terminals, visually distinct on the outside but linked internally to create a single passenger-friendly internal circulation system
- Iconic world class work of architecture for the new terminal building in the grand tradition of railway engineering which could be highly visible from multiple approaches to the station
- A new primary civic plaza, a view corridor showcasing the terminal structure and an urban gathering place for San José. Illustrative example concepts for the size, shape and location

FIGURE 2-2-8: TEST-FIT PLAN - BUILDINGS AND USES - CENTRAL ZONE



*For legend refer to figure 2-2-4*

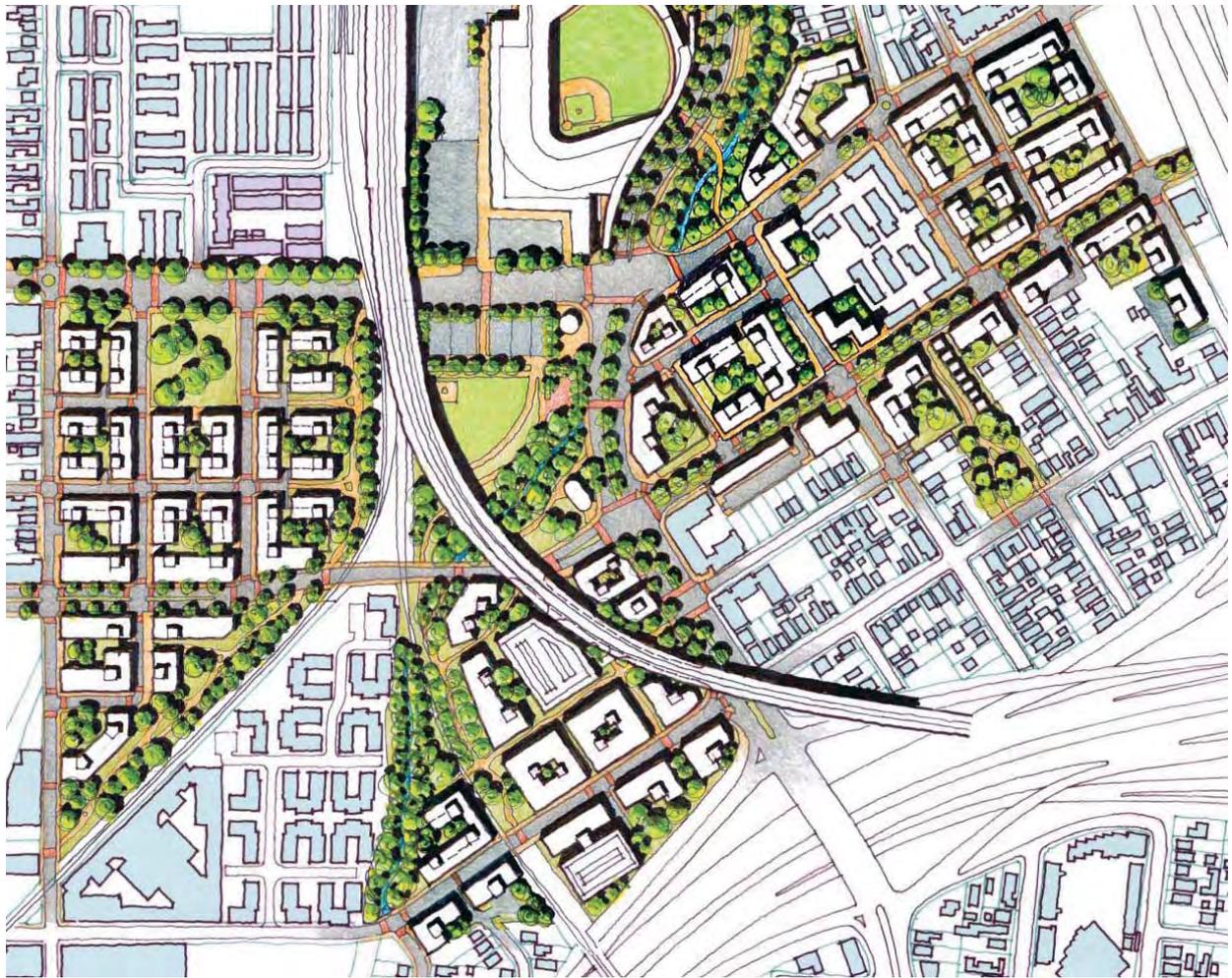
of this plaza are described in more detail in section 2.4 of this report.

- In the case of the elevated high speed rail alignment option, the tracks and station concourse offer more opportunities for making high-level pedestrian connections across the tracks, improving station accessibility and east-west connectivity for the wider area
- Ground floor retail spaces along Montgomery Street with an emphasis on sports and entertainment tenants with frontages oriented to reinforce the main pedestrian routes between the major draws in the area
- Cahill Street could support more diverse urban retail uses at ground floor level
- A linear east-west 'green connection' located on axis with the historic Diridon station, extending across Autumn Parkway and reinforcing the existing pedestrian and bike routes which follow the light rail line, on to San Fernando Street and into downtown. This connection should include wayfinding features which provide a unifying theme to this route and the north-south pedestrian connections
- A new hotel on one of the major blocks within the core grid to capture overnight business and sports-related travel and with direct connections to the High Speed Rail terminal.

### **SOUTHERN ZONE – THE NEIGHBORHOODS ZONE**

This zone includes three separate sets of rail tracks which diverge as they head south from the station: light rail, heavy rail/Caltrain, and high speed rail. In addition, the realigned Autumn Parkway connects with Bird Avenue to become a major access route from the Diridon Station Area to I-280 and the freeway network.

FIGURE 2-2-9: TEST-FIT PLAN - SPACES AND PLACES - SOUTHERN ZONE



The southern zone of the 'test-fit' plan is illustrated in Figures 2-2-9 and 2-2-10.

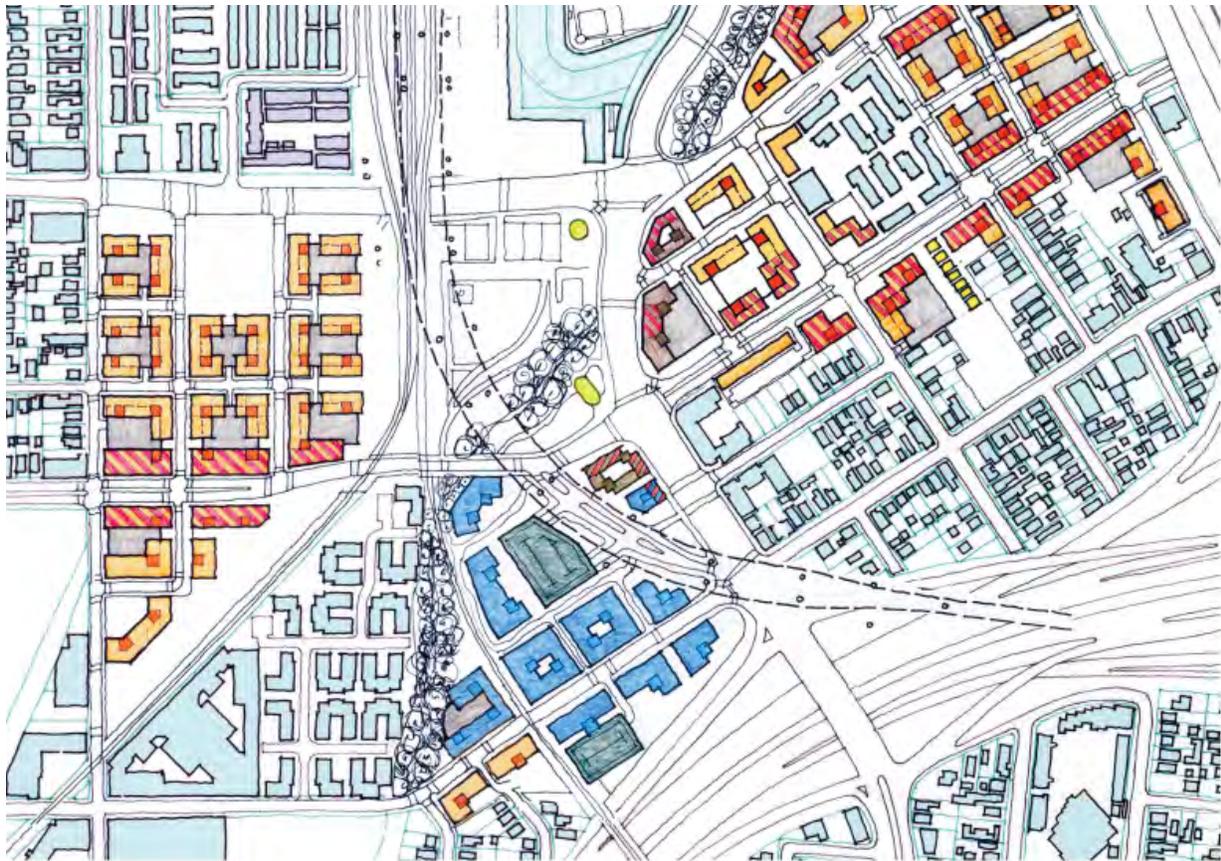
The physical road and rail conditions essentially subdivide this zone into three quite distinct sub-areas:

- The DuPont-McEvoy neighborhood to the west of the light rail tracks which swing south-west as they head toward Winchester and Campbell
- The Royal-Auzerais neighborhood in the central area with the existing at-grade heavy rail tracks defining its western edge and the new elevated high speed rail tracks rising up and passing through this neighborhood, this structure swings around to the south east and passes over the freeway intersection before dropping down to head south along the Monterey corridor
- The Park-San Carlos neighborhood to the east of Bird Avenue with sensitive residential infill and concentrations of neighborhood-oriented retail which follow the development guidelines in previous SNI guidelines for this area

Each of these three sub areas has quite different existing conditions which influence the nature and character of the new development being proposed.

The northern portion of the central sub-section, immediately south of the new ballpark, is the proposed location for a new 8 acre community park, with a portion of Los Gatos Creek and creek side trail running through the south east side of the park. This community park is intended to give existing and future residents a new place for large community gatherings as well as a broad range of outdoor activities, both programmed and non-programmed. Feedback received at the community workshop #3 suggested that further public outreach should be undertaken at an appropriate

FIGURE 2-2-10: TEST-FIT PLAN - BUILDINGS AND USES - SOUTHERN ZONE



For legend refer to figure 2-2-4

time to help determine the most appropriate combination of amenities within the park and to develop programs which will have the broad support of the community.

The primary urban design and place making proposals for each of the three southern sub-zones are:

***South-west zone – DuPont/McEvoy***

- Green fingers reaching out from the large community park along Park Avenue to provide strong bike and pedestrian connections between the sub-areas and into the neighborhoods beyond
- A new residential neighborhood of medium-to-high density replacing the existing mix of low density and/or vacant residential and light industrial properties, arranged in a new street grid which restores the typical urban grain of the surrounding areas
- Concentration of new street-facing ground floor retail/commercial activity along both sides of San Carlos Street, with residential units above, to help strengthen this as a neighborhood retail corridor and to provide the density needed to support urban, smaller-scale, local, and main street retail
- Lower buildings in the northern and western portions of this sub-area (6 stories) to respect the scale and grain of the surrounding residential community, rising to taller buildings further south (8 to 10 stories) overlooking the 'green finger' alongside the light rail line and more remote from the existing lower-scale properties
- A new urban square within the neighborhood, surrounded on three sides by new streets and residential developments to create a sense of enclosure to this 'outdoor room', but open on the fourth side to Park Avenue to increase its visibility to passers-by and residents of the surrounding neighborhoods, in accordance with SNI Guidelines

- All of the new residential and mixed-use blocks are planned around a two-level parking podium to provide adequate on-site parking supply for residents and visitors. All of the residential blocks are several stories higher than the podium which they surround (and mostly hide) and it is proposed that these groups of buildings could be designed such that the top deck of the parking podium is a raised landscaped plaza into which the residential units above look down and which is shared by the residents within each block for private recreational uses. Refer to section 4.1 of this report for an indication of projected future parking spaces in each block
- Parking structures should be attractively designed, avoid blank walls and activate the street to the greatest extent possible
- Implement car-sharing programs and bike kitchens (shared bicycle parking space used by residents that may include shared equipment, tools and working space for bicycle repair) into residential development in order to promote alternative modes of transportation

#### *South-central zone – Royal/Auzerais*

- Large new community park on the existing fire department training site (proposed to have been relocated elsewhere within the City) as described above
- New medium density residential development on the western side of the heavy rail/Caltrain tracks, facing onto Auzerais Avenue and overlooking Los Gatos Creek
- Concentration of office/commercial/research and development (R&D) development uses in the central section. These are arranged in a ring of outward-looking buildings with a shared parking structure in the center, shielded from sight by the new development
- A new hotel on the north east corner of the sub-zone, overlooking the new community park and readily accessible from the freeway network

### *South-east zone – Park/San Carlos*

This sub-zone is much more of a mix of new and existing uses than any of the other districts described above. The area currently enjoys a varied mix of older, newer, smaller and larger properties and this final plan attempts to complement this by inserting pockets of higher density residential development where appropriate (and where identified by previous SNI studies) while still respecting the overall scale and urban grain of the neighborhood.

- Concentration of ground floor street-facing retail along San Carlos Avenue, the east-west spine of the district, to reinforce this as a neighborhood retail corridor
- Extension of Joséfa Street in the north to connect bikes and pedestrians to the Los Gatos Creek and trail and down into the neighborhood. This linkage is treated as another ‘green finger’ reaching into the heart of the neighborhood. This terminates in a new ‘town square’ at the intersection of Joséfa Street and San Carlos Avenue which becomes a new focus for the district.
- Concentration of new open space around the northern end of Joséfa Street with a new public park overlooking and connected to the Los Gatos Creek and trail
- Two new hotels on the western edge of the sub-area overlooking the new large community park and readily accessible from the freeway network

- The new residential and mixed-use blocks are planned around a two-level parking podium to provide adequate on-site parking supply for residents and visitors. All of the residential blocks are several stories higher than the podium which they surround (and mostly hide) and it is proposed that these groups of buildings could be designed such that the top deck of the parking podium is a raised landscaped plaza into which the residential units above look down and which is shared by the residents within each block for private recreational uses. Refer to section 4.1 of this report for an indication of projected future parking spaces in each block.
- Heights and densities of new development and distribution of new public open space generally in accordance with the 2002 Delmas Park SNI plan (amended 2007)
- Incorporation of retail/restaurant business opportunities between Bird Avenue and San Carlos Avenue is highly desired. Pedestrian or walking corridors can be incorporated here to encourage an “edgy-hip” ambience with facades incorporated into the high speed rail right of way. Similar use of overhead track space has successfully occurred in larger Asian and European cities.

## 2.3 Landscape and Open Space

### VISION

The Diridon Station Study area, underserved and underutilized in terms of planned open space, will soon be transformed by new neighborhoods and land uses. Key to the plan is an exceptional park system that will provide amenities for existing and new communities alike and link the life of the residents and visitors of the City of San José with their larger ecological context. Inspired by people and place, the open space system will help integrate social and ecological factors to support a livable and sustainable urban environment.

### EXISTING FRAMEWORK

The existing neighborhood that falls within the Diridon Station Area Plan is underserved in terms of a planned open space network. Particularly missing is a continuous recreational multi-use trail connecting Los Gatos Creek to the Guadalupe River Trail system. In addition, a public gathering place of ample size is missing. The area west of the existing railway lines and north of The Alameda is also not well connected to Downtown for pedestrians and cyclists.

### STRATEGY

Various landscape and open space amenities are described in this section of the report within the context of the sub-areas in which they are located. These proposals should also be viewed as manifestations of the larger landscape and open space vision. Figure 2-3-1 illustrates the landscape and open space strategy for the Diridon Station Area and beyond. It shows that the range of ideas can be viewed as part of a system of open spaces, working from the City-wide context down to individual components at the local level. This hierarchy can be described as six types of open spaces which contribute to the environment and character of the station area plan, described in below.

FIGURE 2-3-1: LANDSCAPING AND OPEN SPACE STRATEGY



Numbers refer to hierarchy of spaces described in 'Strategy' section of text

## **1. THE GUADALUPE RIVER AND LOS GATOS CREEK**

The plan for the Guadalupe River and Los Gatos Creek, including parks and trails, is found in the existing master plan, including The Guadalupe Parkway and the Los Gatos Creek Master Plan. The completion of the Los Gatos Creek improvements between Santa Clara Street and Park Avenue will be the final section of a much larger trail and open space network which connects San José with surrounding communities and countryside, from the San Francisco Bay to the Santa Cruz mountains. This trail and park system passes through the heart of the Diridon Station area and will provide improved recreational opportunities and enhance north-south pedestrian and bike connections to the whole of San José, including residents and visitors to the Diridon area. The design of these areas will meet the established standards of existing Master Plans.

## **2. COMMUNITY PARK**

The large 8-acre community park in the south-central zone will provide new and existing residents with a place for community gathering as well as a broad range of outdoor recreation activities. The activities and programs available within this park will also appeal to a wider audience beyond the immediate boundaries of the Diridon Station Area. The park should be designed with zones for both passive and active programs and specific park features may include the following (the exact program should be developed through a process of detailed community input):

- Day-lighting of Los Gatos creek as a natural amenity
- Amphitheater
- Perimeter walking path circuit
- Iconic picnic pavilion, visible from the street
- Children's play areas
- Restrooms
- Open and multi-use lawn, capable of accommodating soccer or baseball
- Playcourt zone for basketball, tennis, etc.

### 3. GREEN FINGER AND PEDESTRIAN CONNECTION

Overlaid onto the Guadalupe Parkway, Los Gatos Creek and Community Park is the network of “green fingers” and pedestrian connection, which are intended to reach out and connect the larger public open spaces with the various neighborhoods within the plan area and to provide pleasant pedestrian and bicycle connections between the districts.

The green fingers are envisaged as wide linear parks (minimum 40 feet wide) with generous landscaping and a continuous, integrated bicycle and pedestrian pathway system, punctuated by active and passive programmed spaces. The green fingers will be designed for continuity and each could have a unique character expressed through program, plantings, furnishings and paving. An integrated system of shade canopies and seatwalls will support user comfort.

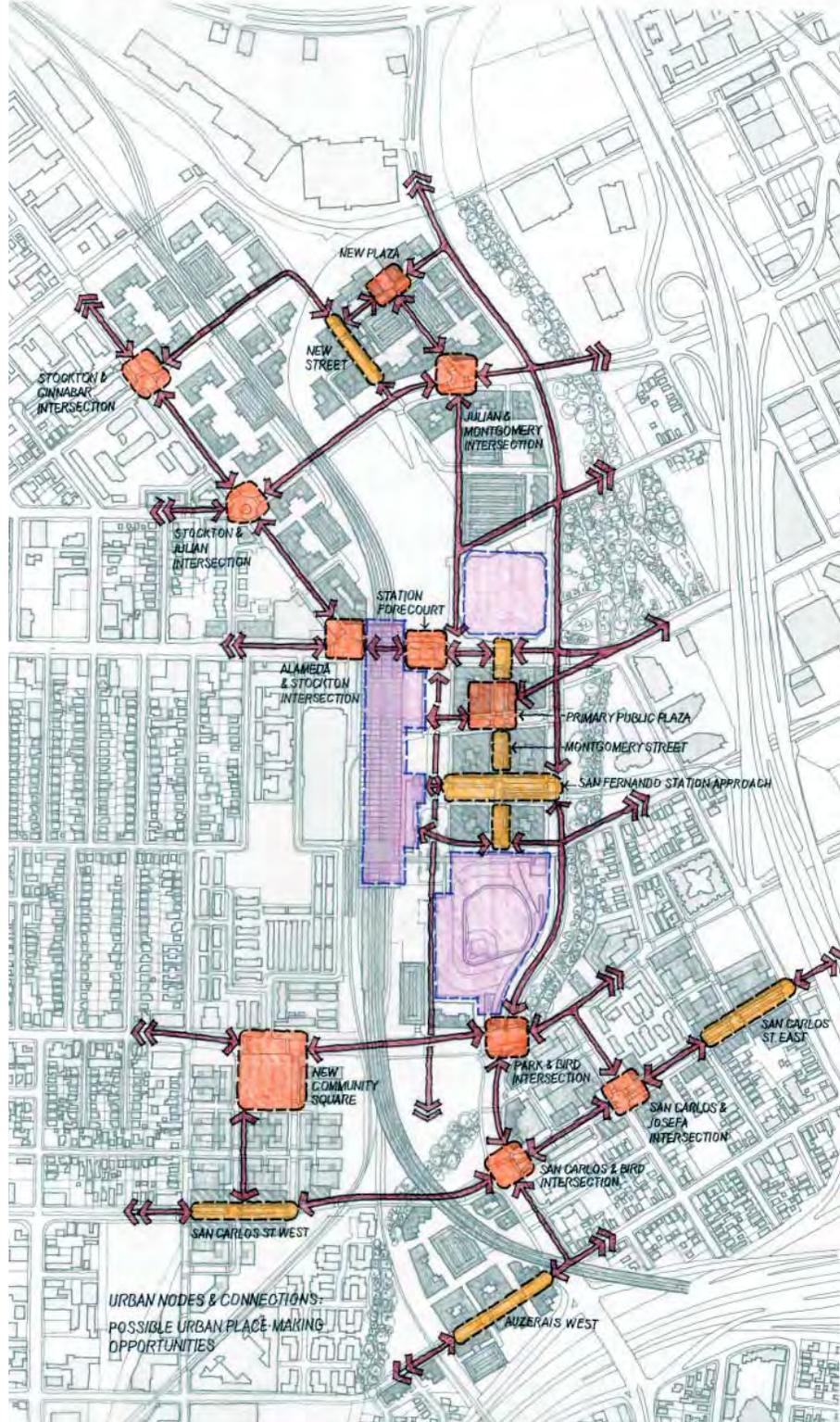
Some of the green fingers contain roads. These will be of sufficient width to allow separation of pedestrian and bike paths from the roads within a wide (minimum 30 to 40 feet wide) landscaped zone to one side of the road.

Pedestrian connection are streets and pathways that emphasize pedestrians and bicycles. They are a minimum of 20 feet wide as pathways and have wide sidewalks and bicycle routes when along a vehicular street.

Passive and active program elements and features along the green fingers and pedestrian connection may include:

- Quiet seating in contemplative garden spaces
- Interpretive elements and signage
- Social seating and picnic areas
- Game tables (chess/checkers)
- Children’s play areas
- Sport courts (basketball, volleyball, tennis)

FIGURE 2-3-2: OPEN SPACE NETWORK AND STREET CONNECTIONS



- Fitness circuit
- Drinking fountains
- Wayfinding and themed signage program

#### 4. PRIMARY PUBLIC PLAZA

A new public plaza will be associated with the new high speed rail terminal and large enough to allow the visual impact of the terminal to be fully appreciated. The space will have a civic as well as a commercial focus. It will be quite different than any other public open space in San José; it will demonstrate the City's commitment to creating a new transitional space and gathering place with a predominantly urban focus.

As the transition space, the plaza will accommodate high volumes of movement in different directions and provide a transition from the station area to the city. This is where the City welcomes the resident or visitor. Easy orientation will be essential; orientation to other transportation modes, pick-up areas, information points, destinations and a visible connection to downtown. Examples of civic spaces in the US that function as both transition and gathering spaces include Pioneer Square in Portland, Oregon and Bryant Park in New York City.

The public plaza will be highly visible to street frontage on at least one side of the plaza. Key features of the plaza include:

- Central, large multi-use space open for flexible set ups and large public gatherings
- Built-in audio/visual infrastructure for events
- Restrooms
- Smaller, quieter, subzones with trees, shade, and seating
- Integrated bike and pedestrian circulation through the plaza, connecting with adjacent through bike and pedestrian routes

Alternative plaza configurations are described in section 2.4 of this report. It is important that the new plaza be visible, at least partly, from Santa Clara Street, San José's primary civic thoroughfare, so



*Pioneer Square in Portland, Oregon*



*Bryant Park in New York City*



that people who are moving through the area on foot, bike and car are aware of the presence of the plaza and are suitably intrigued to want to investigate and explore, either at that time or at a later date.

The land uses and block layout of the central core capitalize on the presence of the San José Arena and the proposed future ballpark on either side of the central zone. Both venues create a lively and active sports-related entertainment zone around the new station terminal. The urban plaza, which is intended to be used as an outdoor room with a well programmed range of activities will be centrally located within this entertainment zone and will be readily accessible by a diversity of patrons.

## 5. NEIGHBORHOOD SQUARES

At the local level, a network of smaller squares and plazas are distributed throughout the project area creating a focal point within each of the different neighborhoods. Figure 2.3.2 illustrates a network of possible nodes throughout the study area, many centered on significant intersections which could become memorable places. These nodes are located at a frequency which makes walking from one space to the next quick and easy, so that the entire study area benefits from improved pedestrian connectivity through an awareness of an evenly distributed and enjoyable collection of outdoor urban spaces. Equally important will be the connections between each of these spaces. The routes which connect these spaces to each other and to the surrounding neighborhoods should be understandable, pedestrian friendly and enjoyable environments in their own right.

Neighborhood squares would include places for community gathering, children's play, and multi-use lawn, and ample shade. They could typically be located at new or existing intersections and could be defined by the buildings around the edges being 'set-back' on one or more corners. This arrangement could create room for activity areas, outdoor dining, playgrounds, passive areas, landscaping, trees and shade.

## 6. GREEN STREETS

Green streets are major east-west streets connecting the downtown with the Diridon Station Area and neighborhoods to the user. They are complete streets, meaning they amply accommodate all forms of transport, including bicycle and pedestrians. In addition, they are green because they have landscaping and seasonal street trees, which not only provide shade and seasonal color, but also can supply the means to treat storm water run-off in bio-swales and other organic treatments. As shown in Figures 2-1-1 and 2-3-1, The Alameda, Julian Street, and Park Avenue are designated as green streets.

### EAST-WEST CONNECTIONS

Figures 2-3-3 and 2-3-4 illustrate how the existing east-west connector streets could be differentiated in terms of their mode share emphasis. Julian Street, The Alameda/Santa Clara, Park Avenue and San Carlos Street all serve important roles as primary cross-routes for vehicular movement. As a companion to these, St. John Street, San Fernando Street and Auzerais Avenue could receive streetscape improvements which de-emphasize vehicular travel and promote these cross-route as primary pedestrian and bicycle corridors.

### THE WIDER CONTEXT

Figure 2-3-5 illustrates how the network of public open spaces within the project area relates to the network of existing parks and plazas in the surrounding neighborhoods. Emphasizing the connections between these places will become an important aspect of integrating the study area into its wider context. The connections also address community desires for east-west connectivity by promoting a well-connected city-wide grid of great outdoor spaces, many of which happen to be in the Diridon Station Area.

FIGURE 2-3-3: EXISTING EAST WEST CONNECTIONS - VEHICULAR EMPHASIS

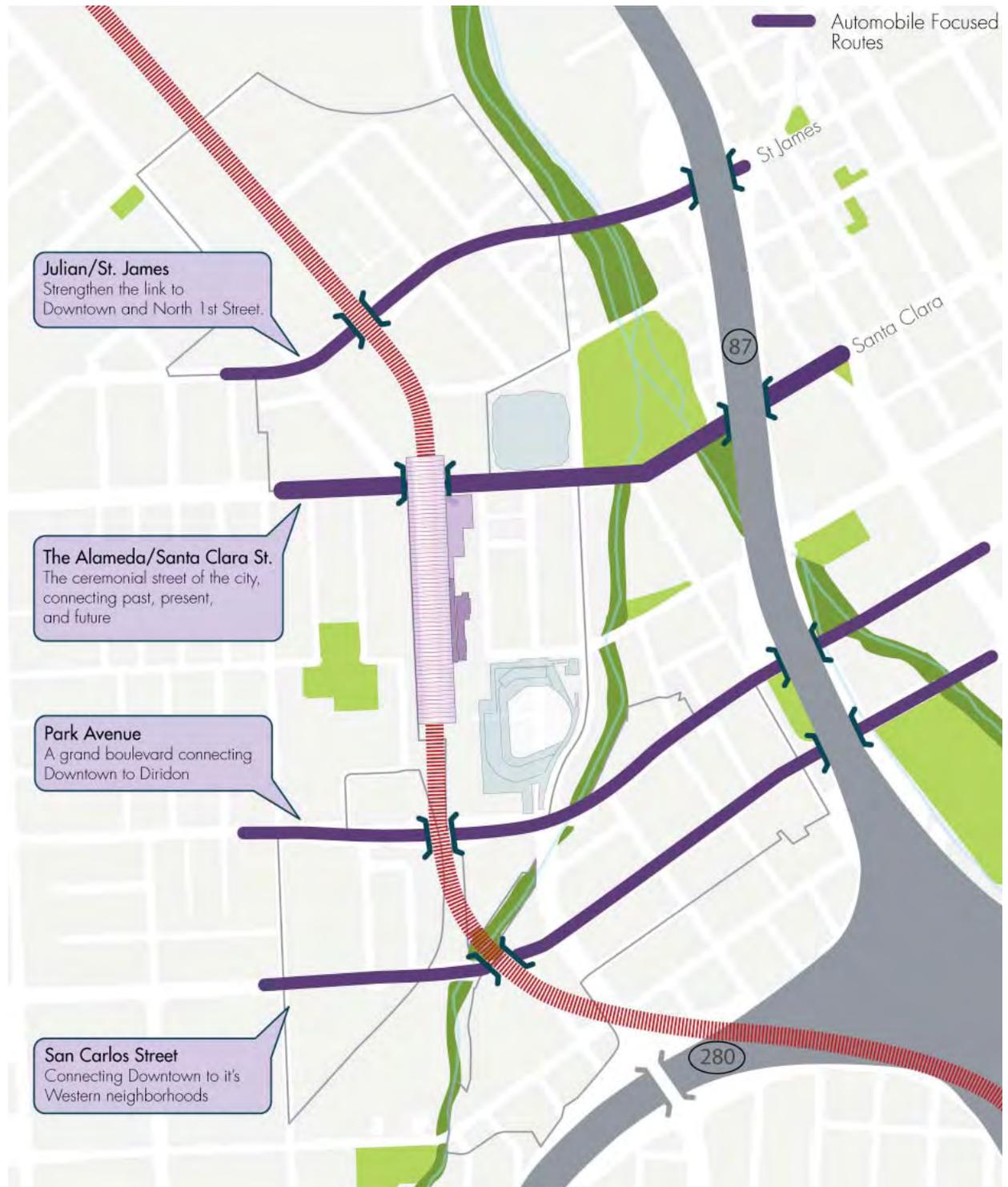


FIGURE 2-3-4: EXISTING EAST WEST CONNECTIONS - PEDESTRIAN AND BICYCLE EMPHASIS

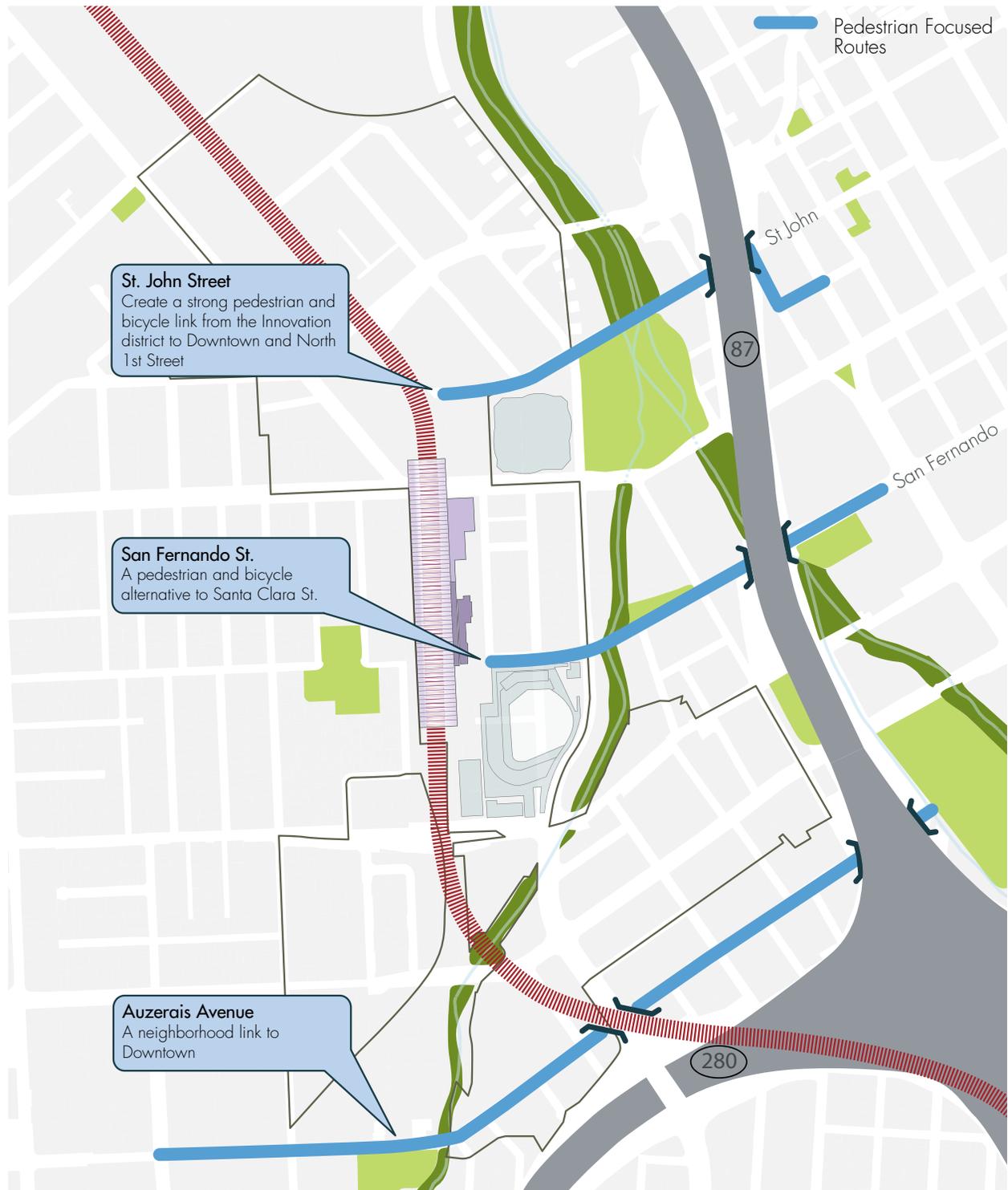


FIGURE 2-3-5: WIDER CONTEXT OPEN SPACE NETWORK AND CONNECTIONS



## 2.4 Primary public plaza concepts

The new HSR terminal building represents an opportunity for the City of San José to create an iconic gateway that can create deep, memorable mental images of San José. The station could be considered the “new cathedral” of the City: It is a landmark of symbolic importance for a 21st century transportation-based society. It is a place where people come, go, and meet. A central and appropriately-sized public plaza that could serve as the station’s natural extension reinforces its civic role and ensures its functionality.

A public plaza that serves as a gathering and celebratory space for the central core area is a critical component of the plan. The new primary public plaza is the place where the City welcomes its visitors and residents. It needs to accommodate high volumes of movement in different directions and a wide variety of activities and functions. As described in the Section 3.2, Public Open Space, additional public spaces will be integrated throughout the core area to complement the primary plaza: adjacent to the new terminal building; on the mezzanine level above the terminal; on circulation roadways such as Cahill and Santa Clara Street; BART station portals; spaces adjacent to the historical Caltrain depot; terminal foyer entrances areas; and at drop-off areas or multi-use streets such as Montgomery within the area. It is imperative that the creation of a public plaza in the core area of the development be balanced with the shared goals of the City and the two local transit agencies who currently own the property in the core area, to 1) create a highly functional, mixed use development with densities necessary to support the planned high levels of public transportation in this area and 2) to create a highly active and lively pedestrian environment with excellent connectivity to downtown and transit. The plaza should be designed as a “place as art” where the art is an integral and intentional component of the place, where the design of the space itself contributes to and heightens the artistic quality.



*Plans for Denver Union Station Plaza to open in 2014*

It is the City's vision that the primary public plaza should provide:

- A focal point of the central core area that provides sufficient open space for a wide variety of activities
- Pedestrian and bike routes and facilities which would be visually reinforced
- Orientation and information about destinations, transit connections, and other transportation modes
- A comfortable place for meeting people, waiting, drop-off, and pick-up
- A transition from the station to the city through visual and physical connections to the station, the new district including the San José Arena and ballpark, and downtown
- A center of activity during the day and night with distinctive lighting that creates a sense of dynamism at night
- Space for cultural, entertainment, and special events Retail, entertainment, and cafés with outdoor seating
- A place where art is integral to the overall experience and creates an iconic identity for the plaza and the station
- Provide opportunities and facilities for small and temporary retailers such as food carts, farmers markets, retailer vendors by providing necessary water and electrical hookups. Food stalls, retail vendors and holiday merchants could tap into the needed infrastructure to enliven the plaza area.
- New buildings surrounding the plaza should provide shade and protection from rain through the inclusion of arcades, awnings, and canopies.

A new plaza which has the new high speed rail terminal as an integral part of its surrounding fabric would be quite different than any other public open space in San José and would demonstrate the City's commitment to creating a new gathering place with a predominantly urban focus, befitting the presence of high speed rail. In order to

showcase and support the new terminal structure, public access and entry spaces, the plaza should be located alongside the new building with a direct connection that enables a natural flow of movement and integrated activates. Resulting from a study of several plaza options, the team identified three example plaza concepts that can serve as an illustrative view of various plaza designs. The examples provided are only to be considered illustrative examples and the final determination of size, location, orientation and number of open spaces will be made during the master development process to be conducted for the terminal and Central Core area. As part of the master development process, actual alternatives will be developed to ensure the plaza design works in conjunction with the scope, scale, architecture and economics of the overall core area plan. In addition, the plaza's size, location, design and overall feasibility would be affected by the financial feasibility of the overall master development plan for the core area.

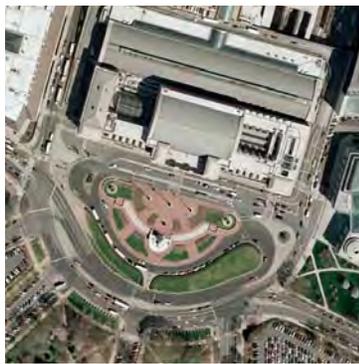


*Main square in front of the HSR Station in Busan, South Korea*

In any of the following illustrative concepts, the City should consider adding and/or improving pedestrian connectivity with direct and convenient crosswalks across the realigned Autumn Parkway to encourage maximum connectivity between the plaza and the Los Gatos Creek Park.

### **CENTRAL SQUARE PLAZA: ILLUSTRATIVE CONCEPT**

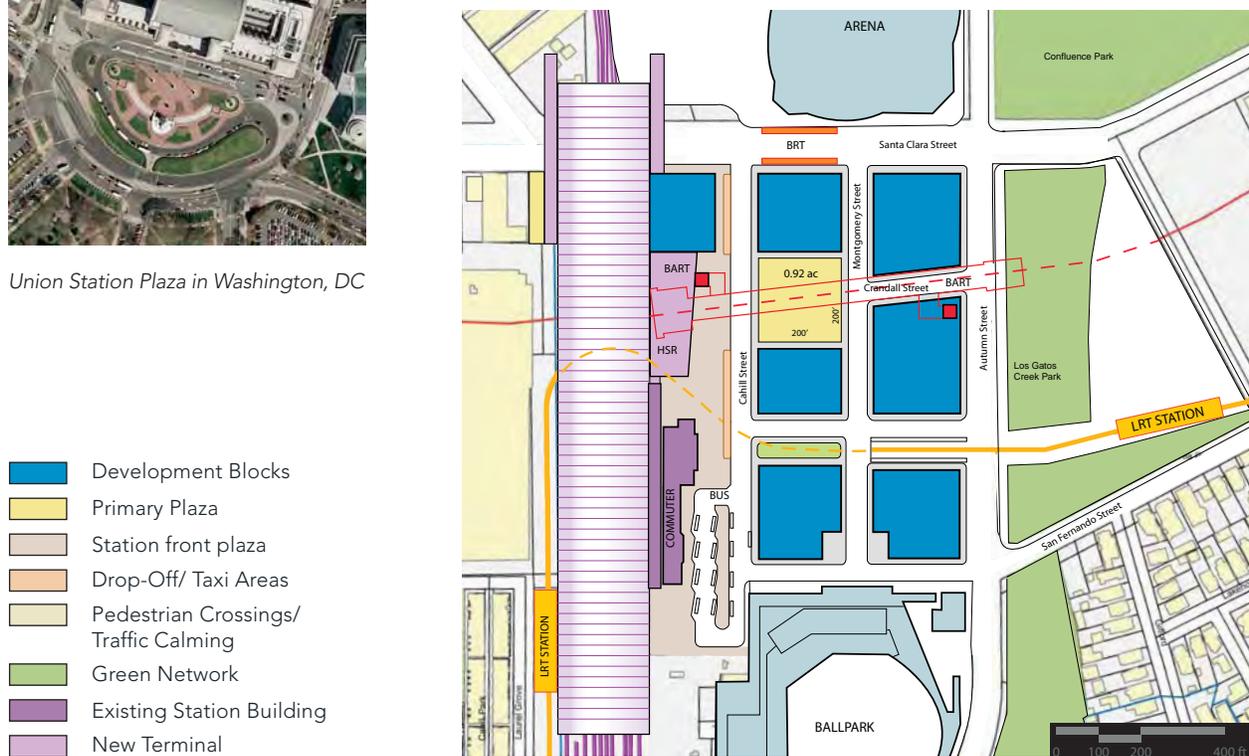
In this concept the proposed central square plaza is located on the east side of the new terminal between Cahill and Montgomery Street. Both the new station entrance areas and plaza are centered on the axis of a new east-west street connecting Montgomery with Autumn Street, which follows the alignment of the planned BART underground station. The square plaza and new street allow for a visual and physical connection between the new station and Los Gatos Creek Park. The plaza forms the center of the district and bundles pedestrian movement in all directions. The square measures 200 feet on each side (0.92 acres) which equals the size of a typical walkable city block. The building blocks to the north



Union Station Plaza in Washington, DC

and south front onto the plaza, allowing for ground floor uses to utilize and activate the plaza. The new station building leaves sufficient space for potential development on its north side, facing Santa Clara Street. Cahill Street remains the main access road to the station. With the plaza surrounded by streets on two sides and buildings on the other two sides, this concept emphasizes north-south vehicular circulation within the district and pedestrian

FIGURE 2-4-1: CENTRAL SQUARE PLAZA - ILLUSTRATIVE PLAN



movement in all directions. The urban character of the square plaza underlined by its symmetrical shape and a clear spatial definition through the buildings on all four sides. The block shapes and sizes allow for a high level of development flexibility.

#### ***Central Square Plaza: Advantages***

- Urban character
- Edges defined by buildings
- Simple and recognizable form that provides a focus to the new station building
- Central location forms the “heart” of the district
- Regular shaped building blocks surrounding the plaza
- Ground floor uses can connect to the plaza on two sides
- Visual connection between station and Los Gatos Creek Park, subject to the limitations of the BART portal locations and sizes

#### ***Central Square Plaza: Limitations***

- Limited visibility from Santa Clara Street
- Relatively small size and symmetrical shape of the plaza is more difficult to use for different events
- The lack of an east-west street connection along plaza creates large north-south oriented block
- Eastern BART entrances can not be located on the square
- The east-west vehicular circulation is interrupted by the square plaza and may cause unnecessary traffic volumes on the other area roadways
- Given the size of this plaza a major public artwork may conflict with other activities, thus creating some limitations for the siting a major public artwork.
- Limited service access locations for event set-up and facilitation



*Central Plaza in front of the central station in Milan, Italy*



Exchange Square in Manchester, UK, is a triangular-shaped plaza



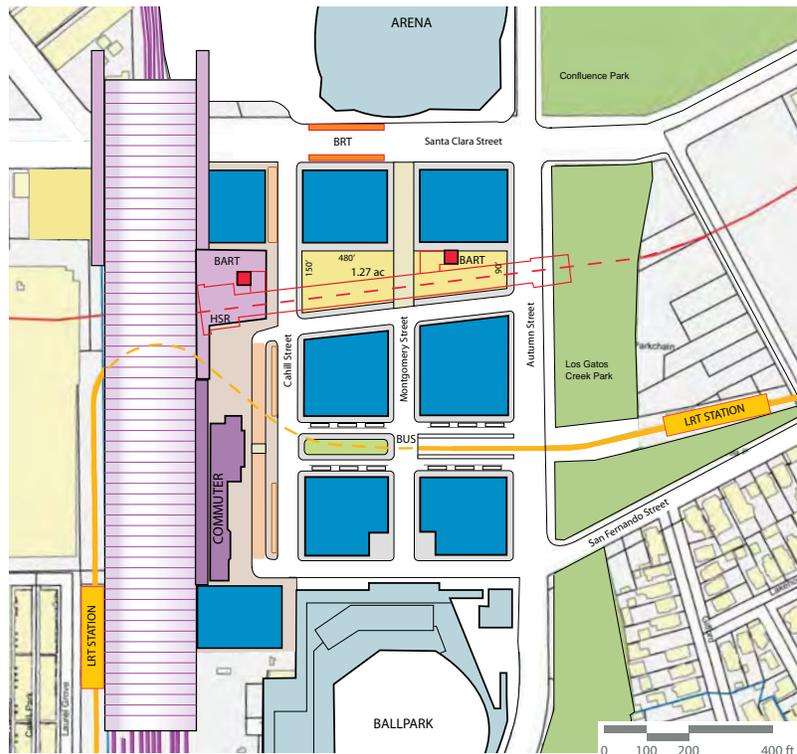
Schouwburgplein in Rotterdam, The Netherlands, is lined with buildings and streets that are limited access or include traffic calming features

- Development Blocks
- Primary Plaza
- Station front plaza
- Drop-Off/ Taxi Areas
- Pedestrian Crossings/ Traffic Calming
- Green Network
- Existing Station Building
- New Terminal

### TRIANGULAR PLAZA: ILLUSTRATIVE CONCEPT

This public space layout responds to the diagonal direction of the planned BART underground station by placing a similarly oriented east-west street on the south side of the plaza while maintaining an building edge parallel to Santa Clara Street on its north side. The triangular-shaped plaza makes a strong urban statement through its clear east-west orientation and serves as a generous connection between the station and Los Gatos Creek Park. It measures about 1.27 acres, with a maximum length of 150' and 90' on its short ends and an overall length of two blocks (approximately 480'). The new station building forms the visual terminus on the plaza's west side. The plaza is bisected by Montgomery Street, which can be designed to allow for limited access or temporary closure in order

FIGURE 2-4-2: TRIANGULAR PLAZA - ILLUSTRATIVE PLAN



to facilitate a direct pedestrian connection between the plaza and the San José Arena during large events. The two distinct zones of the plaza allow for different programming and events. Ground floor uses in the building blocks fronting on the plaza can activate it and draw on pedestrian movement towards the creek and the San José Arena. The plaza layout, combined with a potential new bus terminal on Crandall Street, structures the district in east-west direction and ensures easy orientation and pedestrian movement towards downtown. Both open spaces, the new corridor open plaza and the bus terminal, intersect with Montgomery Street as the main connector between the San José Arena and the ballpark, thus contributing to overall connectivity. The eastern BART entrances can be integrated in the plaza, making them visible and easily accessible.

#### *Triangular Plaza : Advantages*

- Unique and memorable shape
- Distinctive visual and physical connection between the station and Los Gatos Creek Park/ downtown, subject to the limitations of the BART portal locations and sizes
- High visibility and presence within the district and from Autumn Street/ Los Gatos Creek Park
- Buildings front onto the plaza and provide opportunities for pedestrian-oriented ground floor uses
- Combined with a potential new bus terminal on Crandall Street, the plaza structures the district in east-west direction and improves overall connectivity
- The two different environments created by the two open spaces (the plaza and the bus terminal) relate individually to the old and new station buildings and contribute to their distinction
- The additional east-west street south of the plaza helps distribute vehicular traffic to the station
- Curb lines along the plaza's south side can provide for additional drop-off/ waiting areas



*The planned esplanade in Liège, Belgium, will connect the new HSR Station to the river*



*A limited access road at the main square in Delft, The Netherlands, makes the street part of the plaza*



The main plaza in front of the central station in Antwerp, Belgium



Pedestrian crossings in front of the central station in Frankfurt, Germany

- The long shape of the plaza allows for different zones and programming
- The northern portion of Montgomery Street can be designed for limited access or temporary closure
- The eastern BART entrances can be located on the plaza
- Development opportunity north of the new terminal building
- Multiple service access locations for event set-up and facilitation
- “Expose” the iconic terminal and create a grand boulevard
- Strong axis can reinforce a robust urban design framework

**Triangular Plaza : Limitations**

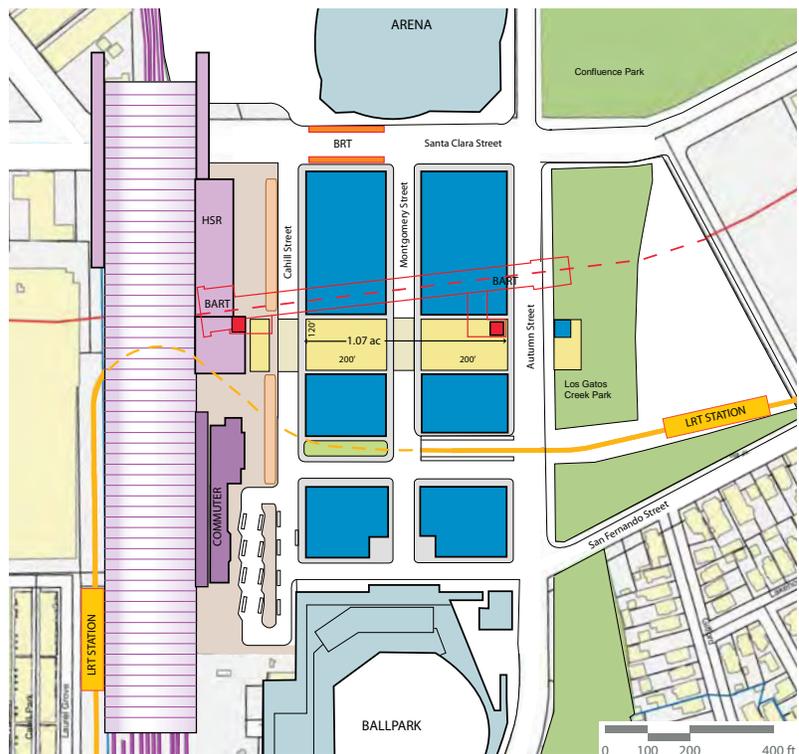
- Plaza is framed by buildings on three sides only

FIGURE 2-4-3: LINEAR PLAZA - ILLUSTRATIVE PLAN



Pedestrian crossings in front of the central station in Frankfurt, Germany

- Development Blocks
- Primary Plaza
- Station front plaza
- Drop-Off/ Taxi Areas
- Pedestrian Crossings/ Traffic Calming
- Green Network
- Existing Station Building
- New Terminal



- Linear shape may reduce the spatial cohesiveness of the plaza, particularly if Montgomery Street remains open for traffic
- Size and orientation of the plaza may make it difficult to activate all areas at all times
- Pedestrian-oriented ground floor uses are only directly connected to the plaza along its northern edge

### LINEAR PLAZA : ILLUSTRATIVE CONCEPT

Similar to the triangular corridor space, this concept also stresses east-west connectivity by placing a linear plaza between the new station building and Los Gatos Creek Park. The plaza has a simple rectangular shape with the new station building serving as its western endpoint and the park as its eastern endpoint. The plaza stretches over two blocks and measures about 1.07 acres with a length of 120' on its short side. By locating the plaza at the center of the district and closer to the existing station building, the plaza bundles pedestrian movement from and to both buildings. The blocks between the plaza and Santa Clara Street are larger than in the other two alternatives and offer greater flexibility for development. However, building on top of the planned BART underground station increases structural complexity and requires thorough planning and construction coordination. Buildings and active ground floor uses frame the plaza along its entire length on the north and south side, which helps activate the plaza. The eastern BART entrance can be integrated in the plaza with an optional second entrance further to the north in Montgomery Street. The two long center blocks require vehicular circulation to primarily move in north-south direction. The main east-west street in the district will be Crandall Street.



*Plaza del Pilar in Zaragoza, Spain, is a linear public space*



*Linear plaza in the city center of Bristol, UK*

***Linear Plaza : Advantages***

- Simple and recognizable shape in central location of the district
- Emphasis on east-west pedestrian connectivity and north-south vehicular circulation
- Plaza bundles movement from the old and new station
- Large blocks on the north side of the plaza
- Plaza lined with active ground floor uses on two facing sides
- The plaza serves as an extension of the open space network
- Narrow plaza width responds to the human scale while the plaza's length allows for different zones and programming
- Eastern BART entrance can be incorporated in the plaza
- Desirable for public artworks for the extension into Los Gatos Park

***Linear Plaza : Limitations***

- Due to its linear shape, the plaza's character may be perceived as a connecting space rather than an intimate urban place
- Depending on the height of the surrounding buildings, the space could feel 'canyon-like'
- Streets may interrupt the cohesiveness of the plaza; textured pavement can help provide pedestrian crossings and visual continuity
- Following the rigidity of the street grid, the plaza requires design features that add interest

- Large blocks limit vehicular connectivity
- Montgomery Street cannot be easily closed during events
- The BRT station is not well connected to the plaza
- Of the three illustrative concepts shown, this plaza configuration is the least visible from Santa Clara Street
- Limited service access locations for event set-up and facilitation

## 2.5 Station concept and layout

### INTRODUCTION

San José Diridon Station will be the best connected transportation hub on the West Coast with the convergence of virtually every mode of public transportation. Activity will increase dramatically with the addition of high speed rail and the extension of Bay Area Rapid Transit (BART) to Diridon station, combined with significant growth by current intercity rail, commuter rail, light rail and bus operators. These new services and growth in demand will create the need for a significant expansion of the existing station. New development will also drive ridership growth, as described in the Station Area Plan. The station expansion will serve as a centerpiece of the station area and is an opportunity to build a iconic gateway to San José and Silicon Valley.

This section presents the preferred alternative for the Diridon Station Expansion Plan. The preferred alternative was selected based on the evaluation against the Station Planning Goals described in the Diridon Station Area Plan Alternative Analysis Report.

The preferred alternative was developed assuming an elevated high speed rail alignment; however, it could be modified to accommodate an underground high speed rail alignment. The necessary modifications to the plan with underground high speed rail are described in the sections below. To the north of Diridon Station, several alignments for the elevated tracks were proposed and the California High Speed Rail Authority (CHSRA) selected the alignment shown in the "test-fit" plan in Figures 2-2-3 through 2-2-6.

A new station building would be constructed north of the existing historic rail depot. The historic depot would remain in operation as part of the passenger rail facility. A future extension of BART would be accommodated below ground and would be directly connected to the new station building with a wide underground concourse that could support commuter-retail opportunities.

The Diridon Station Expansion Plan is intended to provide a framework for future planning and design efforts for the station. The plan presented in this section represents a general arrangement and master plan for the facility. It identifies an approximate building space program based on information currently available, and locates the major building and transportation program elements on a station site plan. This plan is the result of an extensive planning process completed in coordination with the land use planning effort, and represents the configuration preferred by the City of San José and other project partners. Additional effort is required to determine the ultimate architectural and detailed design. No new fixed facilities envisioned in this plan should preclude the expansion of future high speed rail platform or tracks.

## PHYSICAL SPACE PROGRAMMING

In order to develop future space requirements for the station, a two-step approach was taken: First, design capacity for the station was identified based on available ridership forecasts. Second, the ridership capacity was used to estimate physical space requirements.

## RIDERSHIP PROJECTIONS

Transit ridership projections for the horizon year 2030 were collected from all operators that provide service to Diridon Station. The projections provide an overview of the expected ridership demand from each of the transit operators and the station facility needs that will be required for that level of ridership.

Figure 2-5-1 summarizes the existing and future design ridership used for the space programming analysis. It should be noted that a comprehensive ridership forecasts have not been completed. It is recommended that ridership forecasts be updated with a consistent set of assumptions regarding transit service and station area land use as part of future station planning and design efforts.

FIGURE 2-5-1: EXISTING AND FUTURE RIDERSHIP

	2009 Weekday			Future (2030-2035) Weekday		
	Daily			Daily		
	Trains	Passengers		Trains	Daily Passengers	
		Boarding	Alighting		Boarding	Alighting
ACE	6	300	300	12	1,800	1,800
Amtrak Capitol Corridor	14	225	225	32	460	460
Amtrak Coast Starlight	2	n/a	n/a	N/A	100	100
BART	<i>No existing service</i>			N/A	10,510	10,510
Caltrain	96	3,000	3,000	172	10,125	10,125
High Speed Rail	<i>No existing service</i>			228	12,100	12,100
VTA Light Rail	n/a	485	485	N/A	1,150	1,150
<b>Total</b>		<b>4,010</b>	<b>4,010</b>		<b>36,245</b>	<b>36,245</b>

**SOURCES**

- VTA, Diridon/Arena Station Profile (2009) based on 2003 data
- Capital Corridor, Monthly Station Ridership Activity (FY 2008-2009)
- Caltrain, Average Weekday Ridership Counts (2009)
- VTA, Average Weekday Ridership Counts (October 2008, March 2009)
- Capital Corridor Satisfaction Study (June 2009)
- VTA, Light Rail Platform Intercept Survey (2008)
- Caltrain, Onboard Survey Results (October 2007)
- Stacy Cocke PCJPB, "Caltrain Ridership Forecasts (personal communication, January 2010)
- CHSRA, Station Area Parking Guidance Technical Memorandum, July 2010

## PHYSICAL SPACE PROGRAM

The ridership projections were used to develop a building space program. This process was described in greater detail in the Diridon Station Area Plan Alternative Analysis Report. The expanded station campus will be comprised of several major components including:

- Rail Tracks and Platforms. VTA Light Rail, conventional diesel and electrified heavy rail, High Speed Rail
- Station Concourse. Includes passenger circulation, processing and back-of-house support areas. Station concourse requirements have been estimated for both high speed and conventional rail services
- Diridon/San José Arena BART Station. The physical program and design of the future underground BART station is proposed to be fixed based on the Silicon Valley Rapid Transit (SVRT) Project's 65% Engineering Plans. The exceptions are the station portals, which could be redesigned if necessary to optimize the overall Diridon Station configuration
- Surface Transportation. Includes accommodations for buses, shuttles, taxis, and private vehicle pick-up and drop-off activity at the station
- Parking. Includes station/operator employee parking, short-term and long-term public parking
- Other Features. Includes public art, plazas, pedestrian circulation, retail and other joint development

## STATION BUILDING PROGRAM

Figure 2-5-2 summarizes the building space program needs for both high speed and commuter services. Area for rail platforms would be in addition to the values shown.

FIGURE 2-5-2: SPACE PROGRAM NEEDS

<b>Program Element</b>	<b>Area (ft<sup>2</sup>)</b>
<b><i>Commuter Rail Services</i></b>	
Public Concourse Zone	29,500
Controlled Concourse	6,500
Station Support Areas	16,200
<i>Commuter Rail Services Total</i>	<i>52,200</i>
<b><i>High Speed Rail Services</i></b>	
Public Concourse Zone	24,100
Controlled Concourse to High Speed Rail Platforms	5,200
Station Support Areas	16,100
Station Platforms	27,600
<i>High Speed Rail Services</i>	<i>73,000</i>

## PREFERRED STATION ALTERNATIVE

### DESCRIPTION

The Diridon Station Area Plan Alternatives Analysis Report described three different station arrangements. The preferred station alternative is the Alternative A “Linear” scheme, modified to accommodate elevated High Speed Rail platforms and tracks. Figures 2-5-3 to 2-5-7 illustrate the general arrangement each level of the Station Expansion Plan.

The preferred station arrangement balances the multiple functions of the station, including:

- A high volume **commuter facility** that is integrated into surrounding urban fabric;
- An **intermodal passenger hub** providing seamless transfers between multiple modes of transportation; and
- A **long-distance train station** serving passengers who may be frequent, infrequent or first time users of the station.

This concept arranges the station program components linearly east Cahill Street between W. Santa Clara Street and the PG&E substation south of W. San Fernando Street. A new station building would be located near the corner of Cahill Street and W. Santa Clara Street. The new station building presents a major design opportunity and would serve as the gateway to San José for arriving passengers. It would provide a new street-level grand entrance, a large concourse for passenger circulation and waiting, ticketing and passenger support functions as well as station support and back-of-house areas. In addition, the new station building would accommodate street and station-oriented retail and could have the potential for additional joint development.

The existing historic depot building would remain in its current location and would continue to be used for passenger rail functions. It is envisioned that the SP baggage building be reconfigured and be used primarily for passenger circulation, with the station support facilities relocated to the new station building. Vertical circulation from the depot to the existing pedestrian tunnel would also be improved to meet ADA requirements.

The station would include two rail platform levels. Conventional heavy rail platforms would be located at-grade and configured as currently being constructed in the South Terminal Improvement Project. High speed rail tracks and platforms would be elevated approximately 60 feet above existing grade. An intermediate mezzanine level would provide access to the rail platforms above and below, as well as bridge across the rail tracks and W. Santa Clara Street to provide new station access opportunities. The mezzanine level would also provide a pedestrian link across the tracks generally aligned with San Fernando Street to improve connectivity between the east and west side of the tracks.

A plaza and portico would be located between with two station buildings, providing pedestrian connections as well as public art and landscaping opportunities. BART would be located below the north end of the plaza and the new station building, with the ability to have station portals in the plaza as well as directly into the new building.

Two options have been identified for the bus transit center. The "Bus Plaza" option would locate the bus transit center at the southern end of the station site at the intersection of Cahill Street and W. San Fernando Street. The "Transit Mall" option would locate the bus transit center on Crandall Street between Cahill Street and Autumn Parkway. These options are further described in the following section.

### *Underground High Speed Rail Option*

If the underground high speed rail alignment is selected, the general arrangement of the station and street level circulation would be the same as described above, with the following exceptions:

1. A below-grade pedestrian connection would be required to connect the new station building to the high speed rail platforms. This connection would be parallel and adjacent to the BART station concourse.
2. Elevated high speed rail platforms and canopies would not be required.
3. The floor area of the mezzanine level could be reduced in size. The additional connection points to and across the conventional heavy rail tracks would remain as part of the expansion plan.

FIGURE 2-5-3: UNDERGROUND LEVEL PLAN

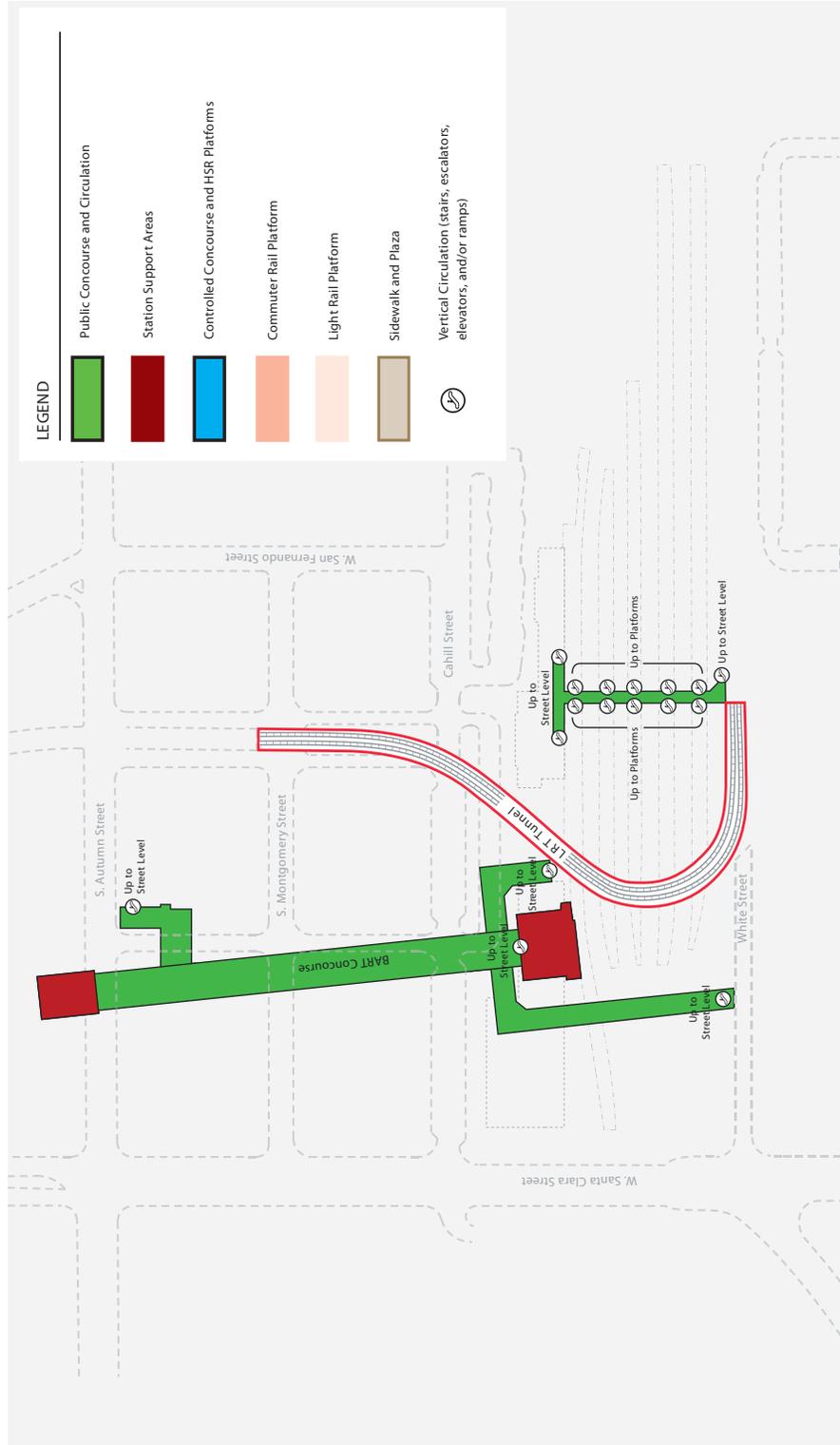


FIGURE 2-5-4: STATION STREET LEVEL PLAN

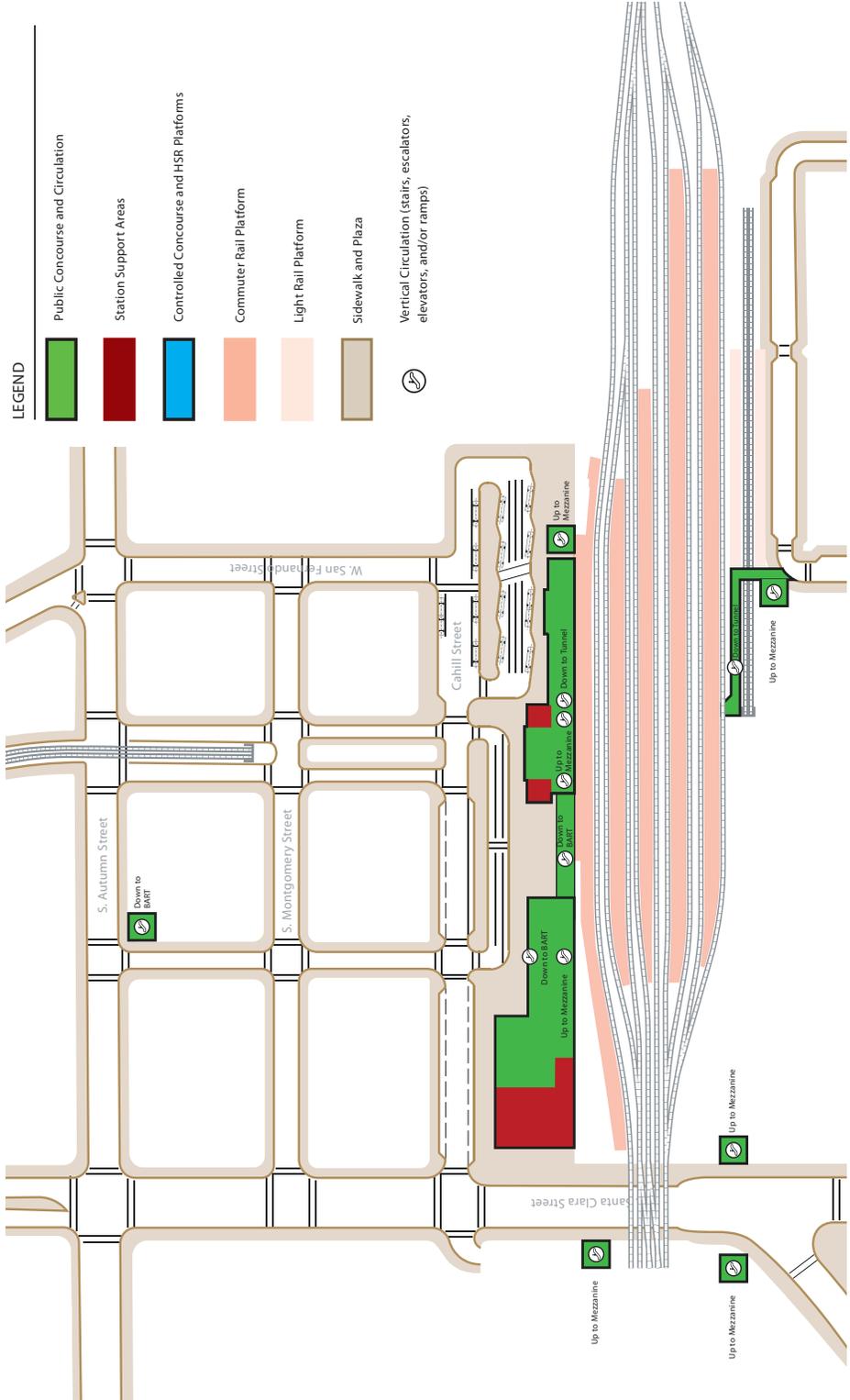


FIGURE 2-5-5: STATION STREET LEVEL ALTERNATIVE PLAN

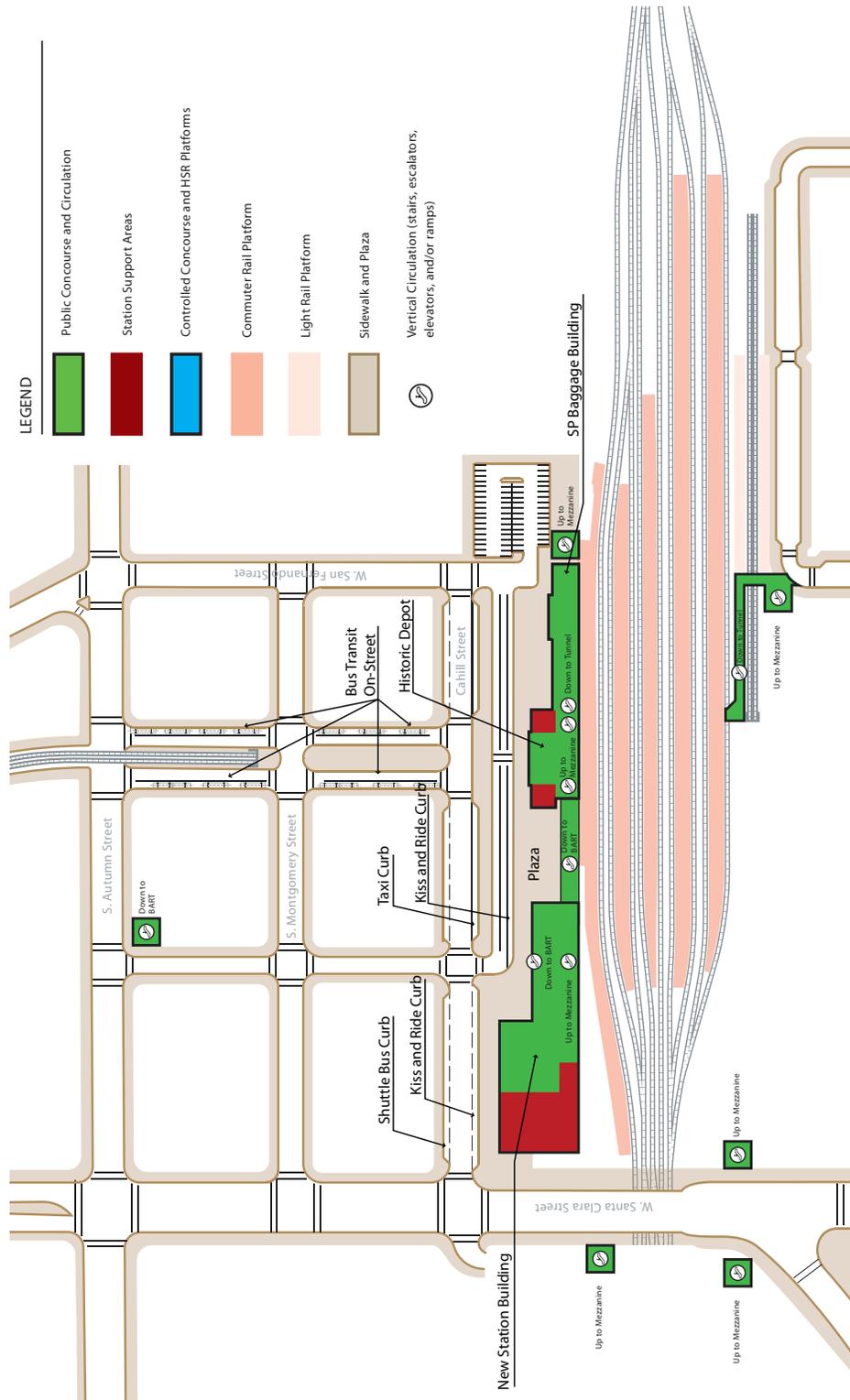


FIGURE 2-5-6: STATION MEZZANINE LEVEL PLAN

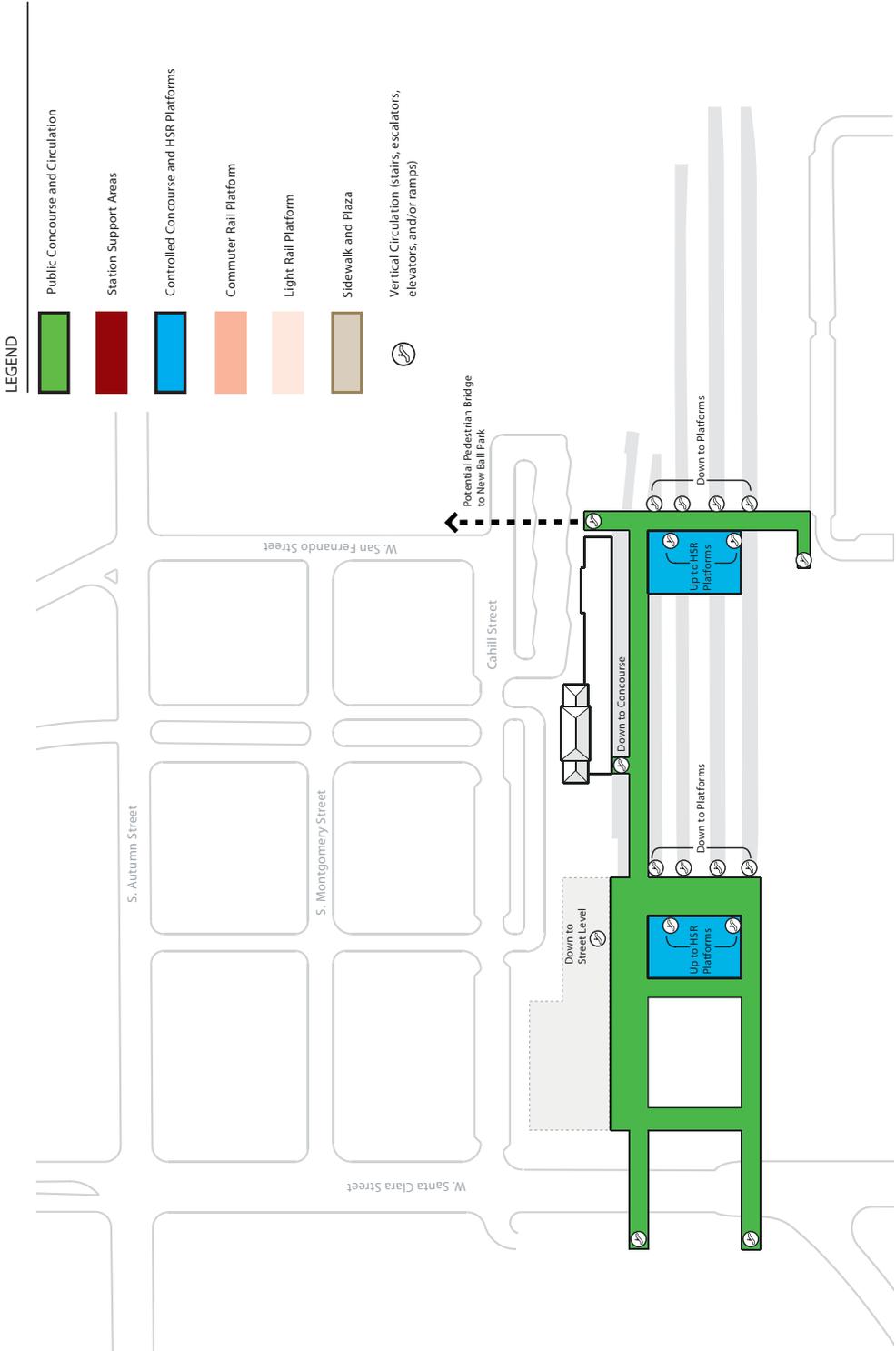


FIGURE 2-5-7: HIGH SPEED PLATFORM LEVEL PLAN

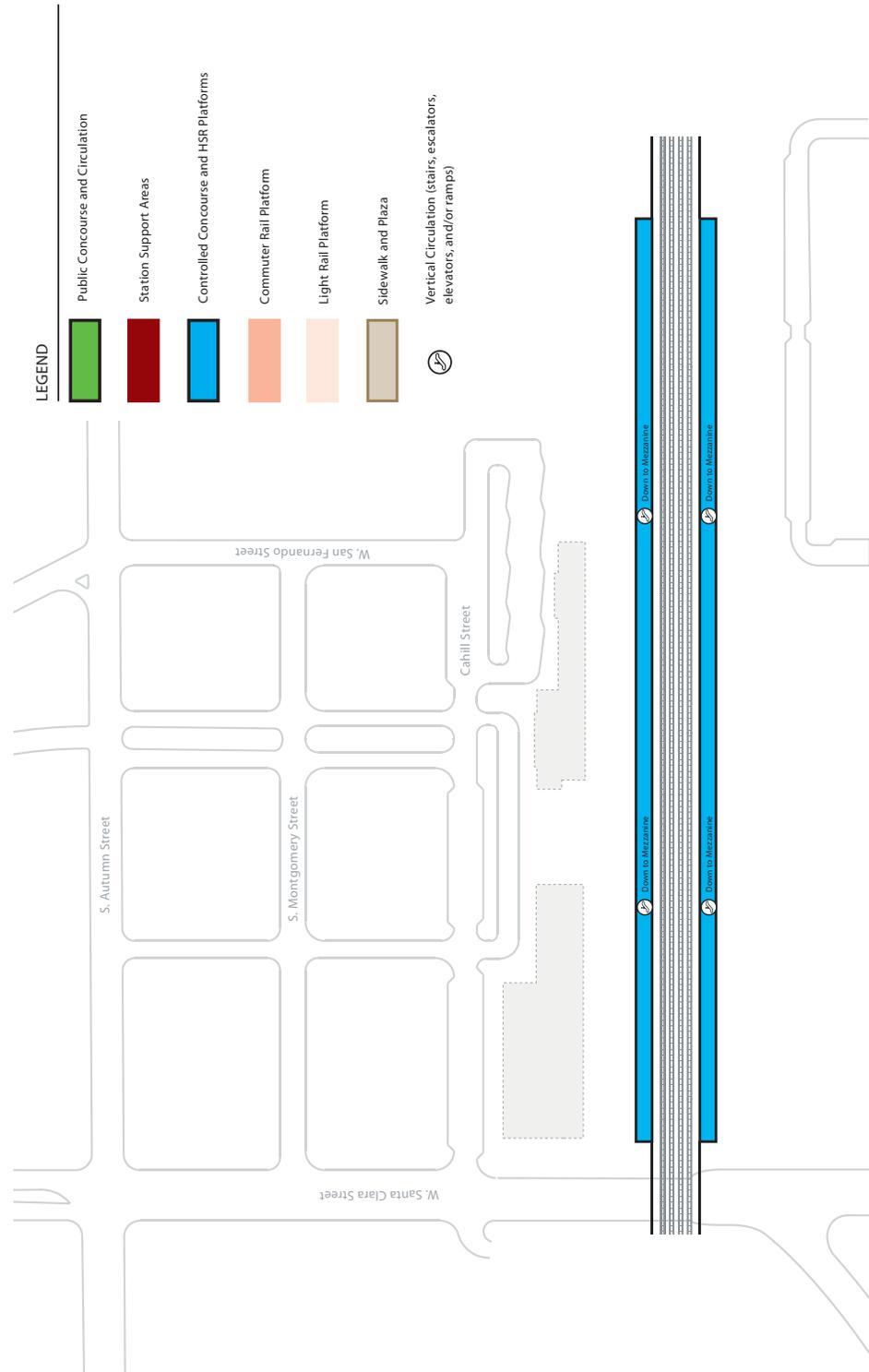
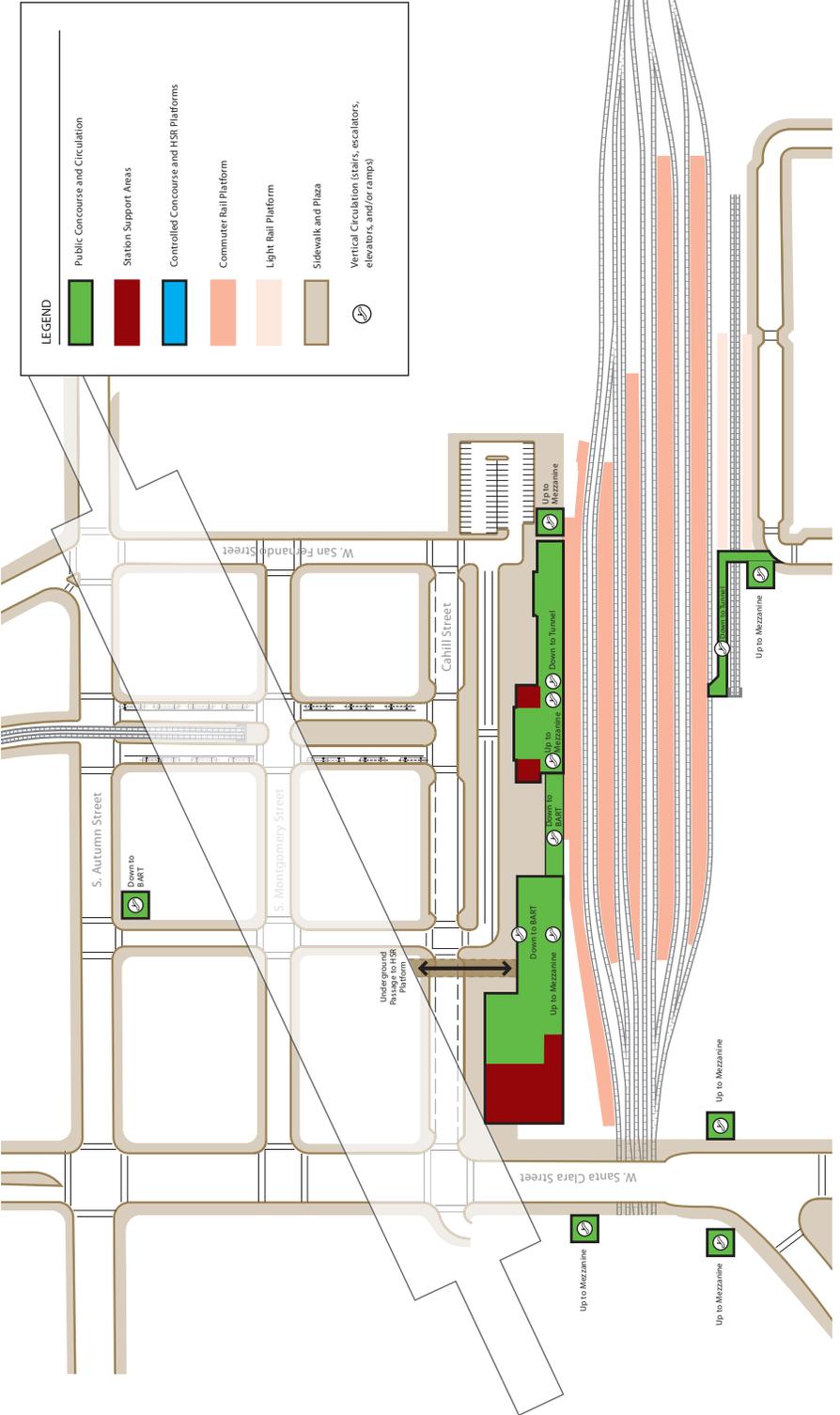


FIGURE 2-5-8: UNDERGROUND HIGH SPEED PLATFORM



## ACCESS AND EXTERNAL CIRCULATION

As a commuter facility, the station should have multiple access points to the surrounding transportation network. Priority should be placed on access by pedestrians, bicycles and public transportation. The new station building will provide a new grand entrance to the station from the east. Further, the station mezzanine level will create the opportunity to bridge across W. Santa Clara Street and provide new entrances on both sides of the rail tracks. Modifications to baggage building would also create a new entrance at the southern end of the station campus adjacent to the proposed ballpark and will be designed to accommodate heavy surges in demand associated with ballpark events.

As an intercity train station, it must be legible to unfamiliar users, with a clearly defined entry and orientation points. The linear arrangement of the new station and the historic depot would create two distinct entry points that could be branded for different rail services. Similar to airport terminals, this arrangement would aid wayfinding and distribute passenger demand. The new station building will be highly visible from W. Santa Clara Street and adjacent areas and is intended to be the “front door” for High Speed Rail and intercity rail passengers in addition to serving commuters. The historic depot and SP baggage building could be branded primarily as the commuter rail facility and for through access to communities east and west of the station.

While this branding strategy would be beneficial for unfamiliar users, once inside the station it would provide seamless connections between services. There will be multiple access points for all operators as described in the Internal Circulation section.

Vehicular access would be provided primarily from Cahill Street. A kiss and ride curb would be located in front of the new station building and the historic depot. Additional curb frontage on Cahill Street would accommodate private shuttle buses and taxis. Private

vehicles would be able to recirculate to the kiss and ride curb via Cahill Streets or other local streets to the east, as described in the Station Area Plan.

## **TRANSIT CENTER OPTIONS**

Diridon Station will continue to be a major transfer station between bus and rail, with approximately 10 bus lines stopping or terminating at Diridon Station. It is necessary to accommodate bus activity in a way that provides for efficient bus operations, while also facilitating passenger transfers and complimenting the local land use and urban design objectives. The transit center must also be able to remain in operation in the event of the temporary closure of W. San Fernando Street between Autumn Parkway and Cahill Street, which is likely to occur during baseball games and other events at the proposed ballpark. As previously shown in Figures 2-5-4, 2-5-5, and 2-5-6 three transit center options have been developed.

### *Bus Plaza Option (Figure 2-5-4)*

The Bus Plaza option would create a partially off-street bus transit facility at the southern end of Cahill Street at W. San Fernando Street. Buses would circulate in both directions on Cahill Street and around a center island located west of Cahill Street in front of the SP baggage building. Bus access to the transit center would be via W. San Fernando Street and Cahill Street. In the event of the closure of W. San Fernando Street, buses accessing from the east and south would be rerouted to Crandall Street (if left turns are permitted to and from Autumn Parkway) or via W. Santa Clara Street and Cahill Street.

### *Transit Mall Option (Figure 2-5-5)*

The Transit Mall option would create an on-street transit facility on Crandall Street between Cahill Street and Autumn Parkway. Crandall Street, currently a one-block long one-way couplet

would be extended to Autumn Parkway and left turns would be permitted for buses to and from Autumn Parkway. The Transit Mall would be located in front of the historic depot on the pedestrian corridor linking to the San Fernando VTA Light Rail Station, W. San Fernando Street and the Guadalupe River Trail. The skewed alignment option adapts the transit mall option to the skewed high speed rail alignment discussed in 1.5.2. This option includes an underground walkway across Cahill Street connecting the high speed rail platform to the station. The circulation would remain the same as the transit mall option and the station massing would remain the same with the exception of an additional canopy.

## INTERNAL CIRCULATION

The Diridon Station Expansion Plan has been developed to optimize circulation for arriving, departing and transferring passengers by creating multiple convenient internal links, while also providing visual connections and creating intuitive circulation paths for unfamiliar users.

Diridon Station is envisioned as a two level train station with commuter rail operating at grade and high speed rail operating above the commuter rail tracks. Light rail operations will remain in their current location along the west side of Diridon Station. An intermediate mezzanine level would serve multiple functions including:

- Provide access to the High Speed Rail platforms;
- Provide circulation in the north-south direction between the new station building and the southern end of the high speed rail platforms, potentially with moving sidewalks;
- Provide supplemental access (in addition to the existing pedestrian tunnel) to the conventional rail platforms;
- Facilitate direct transfers between the conventional and high speed rail services;
- Accommodate station program, such as waiting areas and secure high speed rail platform access control

- Provide convenient link from underground BART public concourse to a new station basement concourse; and
- Provide public circulation routes that bridge across the rail tracks and W. Santa Clara Street, allowing for new station entrances and improved connectivity.

Commuter rail passengers accessing the station could enter through one of the multiple entrance points including the new station building, the historic depot, or the baggage building. They would then proceed to the platforms using either the existing tunnel or the new mezzanine connections. Ticket Vending Machines and Clipper stations could be located throughout the facility along major pedestrian paths. The historic depot could be branded for Caltrain and/or Amtrak services, serving as a point of orientation and accommodating staffed information and ticketing functions.

High speed rail passengers who are not regular users would typically enter through the new station building which would house ticketing and other passenger support functions. Regular users familiar with the facility and not requiring support functions could use any of the other entrances. Passengers would then proceed up to the mezzanine level which would house additional waiting areas, platform access control and security checkpoints, and vertical circulation up to the platforms.

Based on the analysis completed to date by the California High Speed Rail Authority, it is proposed that the northern end of the high speed rail platforms would be located immediately south of W. Santa Clara Street. Given the distance from the new station building to the southern end of the platforms, it would be desirable to provide a direct north-south circulation corridor. This would be located on the mezzanine level west of the historic depot. This corridor could be designed like a pedestrian bridge and be equipped with moving sidewalks. This connection presents an opportunity to provide passengers with unique views of the west side of the historic depot, downtown San José and the high speed rail platforms above.

Another major north-south pedestrian link within the station would be provided at ground level. This would connect between the new station building and the historic depot through the new plaza and extend through the SP baggage building.

### STATION MASSING

This station concept literally embraces the transportation functions, providing the passengers with a unique view of and relationship with the trains and buses. The concept creates a grand roof and terminal that wraps the new elevated platforms, allowing for many places for great views of the transportation facilities. It also forms a unique experience for the passengers as they pass through the new dynamic terminal. Together the two station buildings bookend a shared open space. The historic depot and SP baggage building remain central and functional components of the station, creating a unique opportunity to celebrate both the historic and new architecture.

The massing ideas shown in Figures 2-5-8 and 2-5-9 begin to highlight many of the site- and context-related issues that will be evident as the process goes forward. They are intended to be conceptual representations, not specific building designs.

FIGURE 2-5-9: STATION MASSING FROM ABOVE

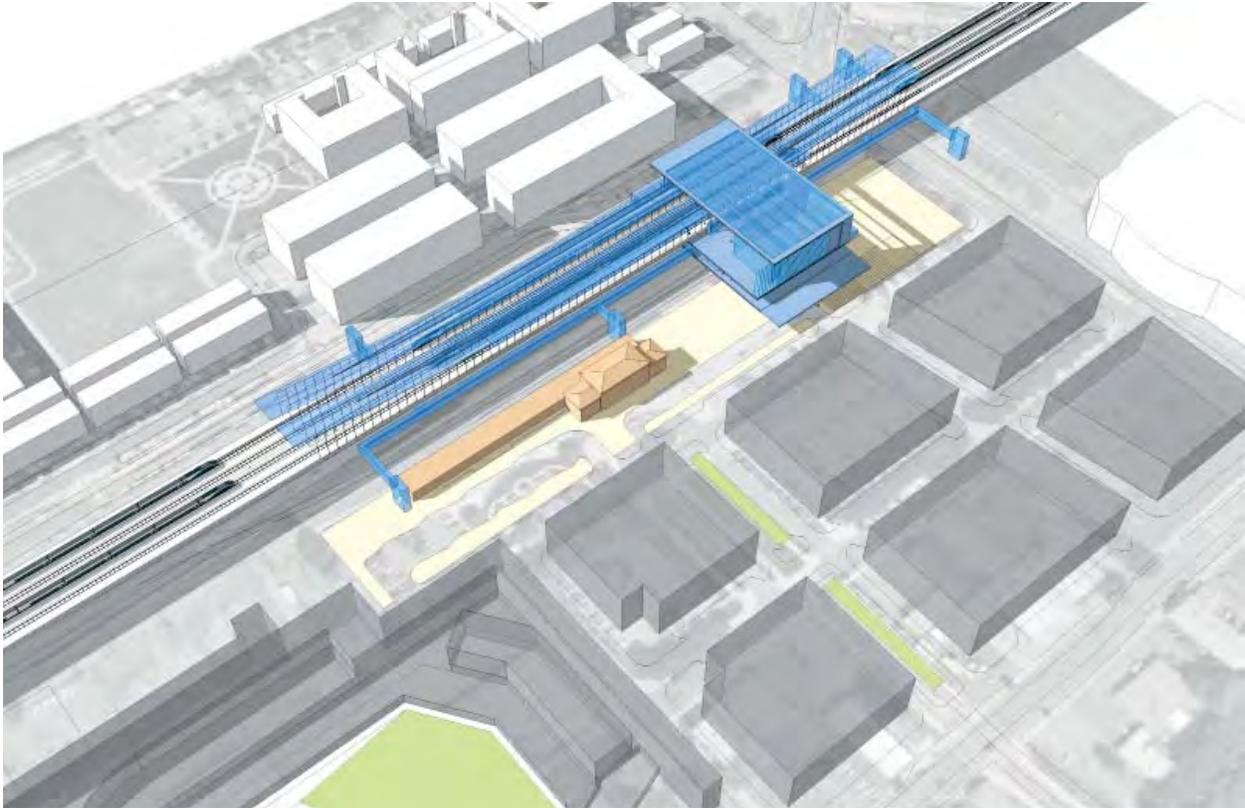
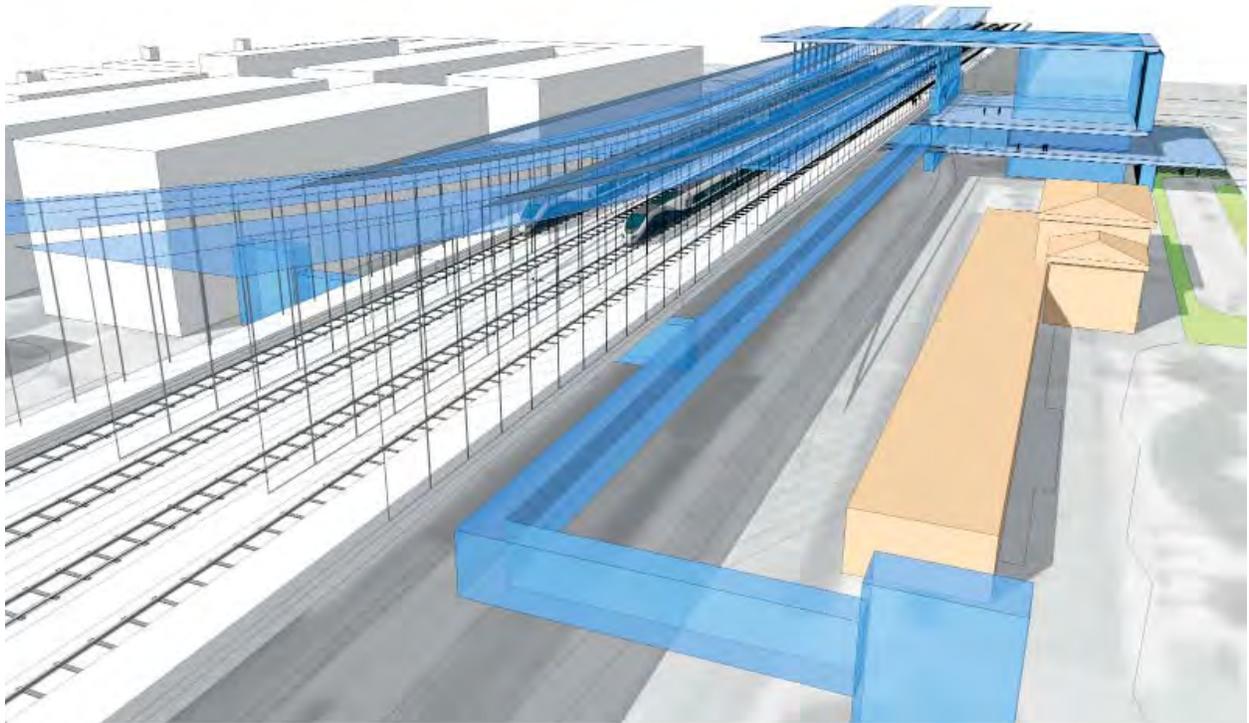


FIGURE 2-5-10: STATION MASSING LOOKING NORTH



## STATION DESIGN - OUTSTANDING ISSUES

Additional planning and design efforts are required to refine and advance the final plan for San José Diridon Station. A number of significant issues need to be considered and resolved including:

- Architectural and Engineering design
- Project phasing
- Cost estimates
- Funding plan
- Station ownership, governance and management
- Final environmental clearance
- Design and construction procurement method
- Potential for public private partnerships

## 2.6 Access and circulation

The purpose of this section is to summarize the transportation strategies recommended for the Diridon Station Area Final Plan. These strategies were developed to minimize conflicts between travel modes; maximize circulation efficiency; address proposed pedestrian, bicycle, and transit connections; and add or modify street network linkages between the Diridon Station and the surrounding land uses.

First, existing transportation system serving the station and planned improvements are summarized to form baseline conditions from which the improvement strategies were developed. Second, individual transportation improvement strategies are then described in detail.

### EXISTING TRANSPORTATION CONDITIONS

San José Diridon Station is a multimodal transit center located in downtown San José on Cahill Street near the San José Arena. Commuter rail service at Diridon Station is provided by Caltrain, Amtrak Capitol Corridor and the Altamont Commuter Express (ACE). Of these, Caltrain passengers comprise most of the station's daily station boardings. Intercity rail service is provided by Amtrak.

Diridon Station has the fourth largest number of boardings of any Caltrain station in the system. On an average weekday, Caltrain ridership at the San José Diridon Station is approximately 5,800 passengers, which equates to an annual ridership of nearly 1.5 million riders. The mode of access used to arrive at the Caltrain Station is summarized in Figure 2-6-1 below.

FIGURE 2-6-1: MODAL ACCESS

<b>MODAL ACCESS FOR CALTRAIN PASSENGERS AT DIRIDON STATION <sup>1</sup></b>	
<b>Mode</b>	<b>Percent</b>
Drive Alone / Carpool	37%
Walk	17%
VTA Light Rail or Bus	20%
Kiss and Ride / Drop Off	12%
Bicycle	5%
DASH shuttle	9%
<i>Total</i>	<i>100%</i>

Notes:  
<sup>1</sup> Fehr & Peers analysis based on boarding and alighting data from Caltrain Onboard Survey (2007)  
 Source: Caltrain Onboard Survey, 2007

## ROADWAY NETWORK

Regional access to the Station Area is provided via I-880, I-280, and SR-87. Roadways that provide local access to the Station Area include Santa Clara Street, The Alameda, Montgomery Street, Autumn Street, Bird Avenue, San Fernando Street, San Carlos Street, Julian Street, Cahill Street, Park Avenue, and Auzerais Avenue.

## PEDESTRIAN FACILITIES

Pedestrian facilities improve safety for pedestrians and can also encourage the use of alternative modes of transportation. These facilities include sidewalks, paths, pedestrian bridges, crosswalks, and pedestrian signals with crosswalks. In California, it is legal for pedestrians to cross any street, except at unmarked locations between immediately adjacent signalized crossings or where crossing is expressly prohibited. Marked crossings reinforce the location and legitimacy of a crossing. In pedestrian-friendly cities, crossing locations are treated as essential links in the pedestrian network.

The City's General Plan encourages pedestrian travel as a viable mode of movement between high-density residential and commercial areas throughout the City and in activity areas such as schools, parks, transit stations, and in urban areas, particularly the Downtown Core Area and neighborhood business districts by providing safe and convenient pedestrian facilities. Most streets in the overall Citywide street network include at least a four-foot wide sidewalk on one or both sides.

Sidewalks and crosswalks are generally present in the vicinity of the station. However, the presence of many pedestrian barriers make walking access to the station challenging. Pedestrians traveling between Downtown San José and Diridon Station can use Santa Clara Street or San Fernando Street. Pedestrians walking along

both streets must pass below SR 87. Pedestrians accessing the station from the commercial area and neighborhoods along The Alameda to the west must walk below rail underpasses with narrow sidewalks on The Alameda and Park Avenue. The tunnel within the station provides additional access to the west, linking the station to the VTA LRT station, Laurel Grove Lane, and Cahill Park.

### BICYCLE AND TRAIL FACILITIES

San José extends across the Santa Clara Valley floor and has many exceptional views of the surrounding hillsides. In addition, many creeks and other natural wooded areas cross the valley floor and provide natural linear pathways. These attributes provide the City with many scenic and recreation opportunities. Trails and pathways create outdoor recreational facilities for bicyclists, pedestrians, and other recreational activities. The City's trails and pathways corridors are illustrated on Figure 2-6-8, along with the City's bicycle facilities.

California bicycle standards provide for three distinct types of bikeway facilities, as generally described below and shown on the accompanying illustrations:

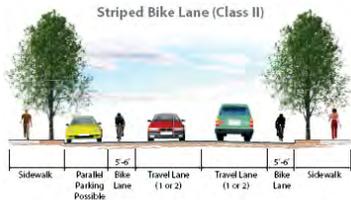
- Bike paths (Class I) are paved pathways separated from roadways that are designated for the exclusive use of bicycles and pedestrians. In general, bike paths serve corridors not served by streets and highways or where sufficient right-of-way exists to allow such facilities to be constructed away from the influence of parallel streets and numerous vehicle conflicts. Sample facilities include the Guadalupe River Trail, and Los Gatos Creek Trail, all of which include asphalt or concrete surfaces.
- Bike lanes (Class II) are lanes for bicyclists adjacent to the outer vehicle travel lanes. These lanes have special lane markings, pavement legends, and signage. Bike lanes are usually constructed to better accommodate bicyclists through



Class I Bike lane section  
Source: Fehr & Peers, 2010



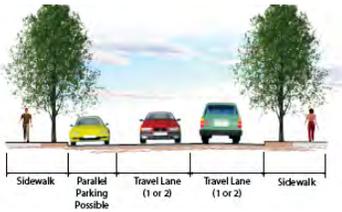
Class I Bike lane section  
Source: Fehr & Peers, 2010



Class II Bike lane section  
Source: Fehr & Peers, 2010



Class II Bike lane  
Source: Fehr & Peers, 2010



Class III Bike lane section  
Source: Fehr & Peers, 2010



Class III Bike lane  
Source: Fehr & Peers, 2010

corridors where insufficient room exists for safe bicycling on existing streets. Sample facilities include bike lanes on Curtner Avenue, Leigh Avenue, and San Fernando Street through the Downtown area.

- Bike routes (Class III) are low-traffic streets designated for bike use with signage and shared-lane markings known commonly as “sharrows”. A sample route is on St. John east of Almaden Boulevard.

**Station Area Bicycle Facilities**

While several hundred miles of bicycle facilities currently exist in the City of San José, the Diridon Station area has somewhat limited bicycle connectivity. A Class I bike and pedestrian path is located along the Guadalupe River from Virginia Street south of I-280 to Gold Street in Alviso. The Los Gatos Creek trail extends south of the station area from San Carlos Street.

San Fernando Street has Class II bicycle lanes from Cahill Street and extending east of SR 87. Park Avenue has bicycle lanes between Montgomery Street and Sunol Street.

Class III bicycle routes in shared traffic lanes are designated on Park Avenue east of Montgomery Street.

**Bicycle Parking Facilities**

While bicycles require only about one-tenth the space of a car to park, bikes need secure bike parking facilities to prevent theft, a common occurrence. This can be as simple as an inverted-U rack or as advanced as a staffed bike station at a transit center. Bicyclists riding longer distances (or in hot weather) sometimes need a shower and changing area to clean up and change clothes. These support facilities are critical to building a bike-friendly community. San José has laid strong groundwork a decade ago by enacting new development standards that require bike parking and showers.

Bicycle parking is mostly found within corporate campuses, primarily for employee use. Some on-street bicycle racks are present east of the Station along San Fernando and Santa Clara Streets. Bicycle parking at the station consists of rentable storage lockers and racks provided by Caltrain. There are a total of 48 bicycle lockers and 18 'coat hanger' style bicycle rack spaces at Diridon Station. There are currently no VTA-owned bicycle lockers at Diridon Station, however, several bicycle lockers can also be found at the VTA San Fernando Station.

## TRANSIT

Bus, commuter rail, intercity rail, and light rail services are all provided at Diridon Station. Bus service includes local, express, and shuttle routes. This station serves Santa Clara Valley Transportation Authority (VTA) bus routes, the Highway 17 Express route, Downtown Area Shuttle (DASH), and Monterey-San José Express Route. Light rail transit is provided at this location by VTA on the Mountain View-Winchester line.

### *Bus Ridership*

Bus route 22 is the most heavily utilized line with over 550 daily boardings and alightings at the Diridon Station bus stops on Santa Clara Street. Route 522 is the next busiest line with over 300 daily boardings and alightings at the station. Of the bus routes that stop at the Diridon transit center, Route 64 is the most popular with over 400 daily boardings and alightings. The DASH shuttle is a popular loop route between Diridon Station and Downtown San José with over 600 daily boardings.

### *Light Rail Ridership*

The Diridon light rail station is also well utilized. Currently, there are approximately 540 daily boardings and alightings at the station.

## AIRPORT CONNECTIONS

The Norman Y. Mineta San José International Airport is located approximately 3 miles northwest of the station area.

## PLANNED STATION AREA TRANSPORTATION CHANGES

Both transportation and land use changes are expected to occur over the next several years within the Station Area.

### *Planned Transit Improvements*

Future transit services within the Station area include Bay Area Rapid Transit (BART) (extended from Fremont) and California High Speed Rail linking the northern and southern portions of the state. The High Speed Rail alignment is proposed to be elevated over the 280/87 interchange, as shown in Figure 2-6-10. In conjunction with the High Speed Rail project, the planned Caltrain Electrification Program (also known as Caltrain 2025) will convert the Caltrain mainline between San Francisco and San José from the current diesel-electric locomotive power to fully electric power. In addition, future Bus Rapid Transit (BRT) lines are planned for the Santa Clara Street / Alameda and San Carlos Street corridors.

### *Future Station Ridership*

Transit ridership in the Station Area will increase substantially as a result of the transportation and land use changes. As part of the Caltrain 2025 program, Caltrain estimates its ridership demand will more than double over the next 20 years. To accommodate this demand, Caltrain service at the station is anticipated to increase from 5 trains to 10 trains per peak hour (tpph) by 2035. The following table shows potential ranges of forecasted daily passenger boardings at the Station (Figure 2-6-2). The future transit systems are illustrated on Figure 2-6-10.

FIGURE 2-6-2: TRANSIT RIDERSHIP FORECASTS

<b>TABLE 3</b>					
<b>RIDERSHIP FORECASTS: DAILY PASSENGER BOARDINGS (YEAR 2035)<sup>1</sup></b>					
<b>ACE</b>	<b>Amtrak Capitol Corridor</b>	<b>BART</b>	<b>Caltrain</b>	<b>High Speed Rail</b>	<b>Total</b>
1,800	460 <sup>3</sup>	10,510	10,125 <sup>2</sup>	12,100	36,245
Notes:					
1 Unless otherwise noted, ridership estimates based on analysis by Arup for this project and Fehr and Peers as part of the Envision San Jose 2040 General Plan.					
2 Caltrain ridership estimates based on information provided in the Caltrain Electrification Program EA/FEIR (2009) based on 10 trains per peak hour (tpph).					
3 Includes Amtrak Coast Starlight Projections					
Source: Arup, 2010; PCJPB/Caltrain, 2010; Fehr and Peers, 2010.					

### PLANNED PEDESTRIAN NETWORK

The Diridon Station area provides many opportunities to enhance pedestrian travel and better balance the needs of all street users including pedestrians, bicyclists and automobile drivers. Planning efforts are underway to convert some of the one-way street couplets in the downtown area to two-way streets. In addition to improving overall access and reducing vehicle circulation, these conversions will reduce travel speeds, which will in turn improve pedestrian travel and safety, especially at intersections.

### BICYCLE AND TRAIL NETWORK AND FACILITIES

#### *San José Bike Plan 2020*

The City’s Bike Plan 2020, adopted in 2009, provides a foundation for enhancing the bikeways network and increasing the mode share of bicycle travelers. The Bike Plan lays out specific goals to improve bicycle access and connectivity in San José by the year 2020. These goals include:

- Complete 500 miles of bikeways;
- Achieve a five percent bike mode share;
- Reduce bike collision rates by 50 percent;
- Add 5,000 bicycle parking spaces; and
- Achieve Gold-Level Bicycle Friendly Community status

The Bike Plan 2020 envisions completion of a proposed Class I off-street path along the Los Gatos Creek, as well as additional bicycle lanes on several streets in the vicinity of the station. A corridor along Park Avenue connecting to San Fernando is identified as a Primary Bikeway Network Route in the Bike Plan 2020.

#### ***City Bicycle Parking Standards***

Consistent with State law and general plan goals and policies, San José recently adopted changes to San José Municipal Code to expand the range of land uses requiring bicycle parking to include most non-residential uses.

#### ***Santa Clara County Trails Master Plan***

The Santa Clara County Trails Master Plan was approved by the Santa Clara County Board of Supervisors in 1995. The goal of the plan is to direct the County's trail implementation efforts under a vision to provide a contiguous trail network that connects cities, regional open space resources, and parks. The plan identifies regional trail routes, sub-regional trail routes, connector trail routes, and historic trails. Major regional trail routes identified in the County's Trail Master Plan within the Diridon Station Area include the Los Gatos Creek Trail and the Guadalupe Trail. Both of these trails are identified in the City's trail network and are an important part of the station area transportation system.

### ***Bike Share Program***

In August 2013, the City of San José partnered with the Bay Area Air Quality Management District, the Metropolitan Transportation Commission, and the Santa Clara Valley Transportation Authority to launch a sixteen-station public bike share system. Two of these stations are in the Diridon Station Area, with one located at Diridon and the other at the San José Arena. This system is part of the larger Bay Area Bike Share program that operates along the Caltrain corridor in San Francisco, Redwood City, Palo Alto, Mountain View, and San José. Future stations will be added in Downtown San José and in the Diridon area, with five additional stations programmed for installation in late 2014 or early 2015.

## **PLANNED STATION AREA ROADWAY IMPROVEMENTS**

### ***The Alameda: A Plan for the Beautiful Way***

In 2009, the City was awarded a MTC grant for improvements to The Alameda consistent with the “Beautiful Way” Plan prepared in April 2010. Implementation of the plan will be done in two phases. Neither Phase I nor II propose a reduction in the number of through travel lanes.

Phase I, from Stockton Avenue to Fremont Street, currently under construction, will provide roadway and pedestrian improvements along The Alameda. Improvements will include landscape median islands, signal modifications, enhanced crosswalks with median refuges, corner or sidewalk bulb-outs and bus stop enhancements.

Similar improvements will continue in Phase II, from Fremont Street to I-880. The project is currently under design with an anticipated 2015-2016 completion date.

### ***Autumn Street Parkway and Park Avenue Underpass Narrowing***

Autumn Street is planned to be extended to connect with Coleman

Avenue to the north. Its configuration is planned to change from two or three-one way lanes to two-lanes in each direction from I-280 to Coleman Avenue. The Autumn Street planned alignment is shown on Figure 2-1-1. Park Avenue is planned to be narrowed from four- to two-lanes.

***San Carlos Rail Overpass Replacement.***

The San Carlos Street overpass over the rail tracks is currently outdated and provides inadequate sight distance for vehicle travel. It is planned to be replaced with a new overpass structure in the future.

## STATION AREA LAND USE

The proposed station area plan would redevelop several existing land uses around Diridon Station by replacing them with new mixed-use/higher density developments. Table 2-6-4 summarizes the final plan land uses for the Diridon Station Area Plan.

FIGURE 2-6-4: LAND USE AREAS

STATION AREA FINAL PLAN LAND USE		
Land Use	Units	Totals
Commercial/R&D/Light Industrial	Square feet	4,963,400
Retail/Restaurant	Square feet	424,100
Residential	Dwelling units	2,588
Hotel	Rooms	900
Ballpark	Seats	32,000
Source: Field Paoli, October 2010		

### *Integrating Transportation and Land Use*

Locating different types of land uses close together tends to reduce the distances that residents must travel for errands and facilitates more walking and cycling for such trips. It can reduce commute distances (some residents may obtain jobs in nearby businesses), and employees who work in a mixed-use commercial area are more likely to commute by non-auto oriented modes.

Certain combinations of land use are particularly effective at reducing travel, such as incorporating schools, stores, parks and other commonly-used services within residential neighborhoods and employment centers. The Final Plan Land Use provides a range of commercial and residential uses. Commercial uses include neighborhood services for surrounding residential areas, and a mix of entertainment, hotels, shopping, restaurants and offices.

## STATION AREA TRANSPORTATION STRATEGIES

The following transportation strategies put special emphasis on increasing access and mobility for transit users, bicyclists, and pedestrians, while balancing the needs of automobile travel. Complementary strategies for the different transportation modes were selected to provide a comprehensive framework that would increase multi-modal access to and around the Station Area.

### Transportation Guiding Policies

A set of guiding transportation policies support the Plan's overall vision of creating a vibrant Station Area that enhances community identity and sense of place. These include:

- Facilitate pedestrian access and safety through pedestrian enhancements, including the provision of crosswalks at all intersections, wider sidewalks, and high quality pedestrian amenities along transit corridors
  - o Promote easy access to the station from residential developments
  - o Residents who live within 1,200 feet of a rail transit station are significantly more likely to ride transit than those who live from 1,200 feet to 2,500 feet away. For this reason, the more residents that can be accommodated near the station, the less traffic that will be generated by residential development
- Promote easy walking access from the station to commercial developments
  - o With an emphasis on retail and restaurant uses in conjunction with the ballpark, wide sidewalks along many streets will be important to accommodate peak walking demands and provide sidewalk seating space
- Encourage improved bicycle and trail connectivity and provide enhanced bicycle parking opportunities within the Station Area

- o Promote bicycle access from surrounding neighborhoods within the Station Area
- o Bicycle parking should be visible and accessible so that traveling to the area by bicycle is a viable option
- o Integrate “green fingers” with the pedestrian and bicycle trail connections - The green fingers not only represent an opportunity to provide green space but also an important connection for walking and bicycling
- Ensure increased transit connectivity within and to/from the Station Area and provide for transit amenities at stops that improve the comfort and convenience for transit riders
- Promote the development of the Station Area’s street and intersection network that supports the proposed intensification of land uses, while providing mobility for all travel modes and users
  - o Incorporate new street connections to improve walking and bicycling access within the station area

## PROPOSED STATION AREA TRANSPORTATION STRATEGIES

The following proposed transportation policies and strategies support the guiding policies.

Strategies are based on key opportunities and constraints in the station area and information gathered through the Diridon Station Area Plan outreach process. Transportation improvements are summarized in Figure 2-6-5 and 2-6-6 and are grouped into four categories: walking, bicycling, transit, and complete streets.

Transportation circulation concepts outlined in Figures 2-6-5 and 2-6-6 above are discussed in the following paragraphs.

FIGURE 2-6-5: TRANSPORTATION STRATEGIES - WALKING AND BICYCLING

<b>DIRIDON STATION AREA TRANSPORTATION STRATEGIES</b>	
<b>Improvement Area</b>	<b>Station Area Transportation Strategies</b>
Walking	<ul style="list-style-type: none"> <li>• Promote walking connections from surrounding neighborhoods and employment centers to the Plan area by providing a continuous network of sidewalks, paseos, and pathways.</li> <li>• Facilitate pedestrian access and safety through pedestrian enhancements, including the installation of wider sidewalks along key pedestrian corridors.</li> <li>• Provide enhanced crosswalks at signalized intersections and key pedestrian crossings through the use of pedestrian bulb-outs, median refuge islands, and/or special paving treatments</li> <li>• Consider mid-block crosswalks and/or pedestrian signals at high-use uncontrolled crossings, as appropriate</li> <li>• Consider a pedestrian "scramble" signal phasing locations with high pedestrian volumes.</li> <li>• Enhance pedestrian underpass connections through installation of ramps, pedestrian-scale lighting, wider sidewalks, and public art.</li> </ul>
Bicycling	<ul style="list-style-type: none"> <li>• Provide a network of bicycle priority streets that provide linkages through the Plan area.</li> <li>• Provide bicycle lanes (also known as Class II facilities) on streets with available right-of-way and higher traffic volumes.</li> <li>• Enhance the safety and comfort of the bicycle network through the use of colored bike lanes, "sharrow" markings, separated bike lands, signage, and/or other specialized treatments.</li> <li>• Develop trail connections along the Los Gatos Creek and Guadalupe River.</li> <li>• Where appropriate, provide grade-separated crossings along the Los Gatos Creek and Guadalupe River Trails to enhance connectivity and safety of the trail network.</li> <li>• Provide sufficient bicycle parking facilities for short-term and long-term purposes.</li> <li>• With the Station Area as its focus, promote usage of the existing bike share station and overall expansion of the program to encourage cycling as a primary mode and facilitate use of transit without having to transport a bicycle.</li> <li>• Support the expansion of Diridon Station's bicycle parking supply with the aim of creating a major bicycle parking facility, such as the 4th and King Bike Station in San Francisco.</li> </ul>

FIGURE 2-6-6: TRANSPORTATION STRATEGIES - TRANSIT AND COMPLETE STREETS

<b>DIRIDON STATION AREA TRANSPORTATION STRATEGIES</b>	
<b>Improvement Area</b>	<b>Station Area Transportation Strategies</b>
Transit	<ul style="list-style-type: none"> <li>• Consider using electric vehicles for the Downtown Area Shuttle (DASH).</li> <li>• Enhance bus stops with appropriate amenities (shelters, benches, lighting, real-time passenger information) to improve the overall comfort and safety for transit riders.</li> <li>• Support rail transit operators (including VTA, Caltrain, ACE, Amtrak, and BART) to improve service and amenities that increase daily ridership and reduce potential negative effects on the community.</li> <li>• Consider implementing an additional shuttle route connecting Diridon Station and Mineta San Jose International Airport (SJC).</li> </ul>
Complete Streets	<ul style="list-style-type: none"> <li>• Improve the street grid system by creating new street connections and shorter blocks to promote additional travel options and reduce walking distances to destinations.</li> <li>• Provide adequate width for all sidewalk uses, including loading and unloading from on-street parking, walking traffic, window shopping traffic, bicycle parking, and street furniture.</li> <li>• Provide street trees to separate the pedestrian walkway from the bicycle and/or vehicle travel way, and to add identity and enhance the aesthetics of an area.</li> <li>• Provide pedestrian-scale lighting on key streets, crosswalks, and mid-block crossings.</li> <li>• Provide amenities such as pedestrian kiosks, benches, newspaper racks, trash cans, bus shelters, cafe tables, hanging flower baskets, and chairs to increase the number of opportunities for people to socialize and spend leisure time outdoors along public streets.</li> <li>• Incorporate "green street" features such as pervious surfaces, open channels, and vegetated drainage swales at appropriate locations.</li> <li>• Remove existing pork-chop islands to enhance public safety.</li> <li>• Provide continuous sidewalk improvements along major arterial streets. Close gaps between pedestrian connections.</li> </ul>

## PROPOSED TRANSPORTATION AND CIRCULATION CONCEPTS

### *Walking Improvements*

Walkability is defined as the ability to travel easily and safely between various origins and destinations without having to rely on automobiles or other motorized travel. The ideal walkable district includes wide sidewalks, a mix of land uses such as residential, employment, and shopping opportunities, a limited number of conflict points with vehicle traffic, and easy access to transit facilities and services.

Making an area walkable requires that pedestrians feel comfortable and secure enough to share the street with transit vehicles and automobiles. Transportation strategies should be used to create streets that ensure and maximize safe and efficient pedestrian-oriented circulation by incorporating wider sidewalks, mid-block pedestrian crossings, pedestrian bulbouts and curb extensions and enhanced crosswalks.

Proposed Station Area walking improvements are shown on Figure 2-6-7.

### *Crosswalks*

Enhanced crosswalks with bulbouts reduce pedestrian crossing distances and help make walking across the street easier and more comfortable. Marking crosswalks with special paving treatments or high visibility striping helps highlight their presence and improves pedestrian visibility.

The Station Area plan promotes high quality pedestrian crossings and improved pedestrian conditions at all intersections in the study area, but especially at the intersections that will see the greatest increased in pedestrian activity as a result of planned land use development and improved walking connectivity.



*Enhanced Crosswalk with Bulb out*  
Source: Bike Ped Images, 2010



*Scramble intersection with diagonal pedestrian crossings*  
Source: Getty Images, 2009

### ***Pedestrian Scramble Intersections***

Many intersections within the Station Area are expected to have extremely high pedestrian volumes. A pedestrian “scramble” is a form of traffic control in which all oncoming traffic is stopped, allowing pedestrians to cross in any direction. Pedestrian scrambles are in major cities all over the world, including San Francisco and Oakland, and are highly useful at promoting pedestrian movement. Because pedestrians can cross in all directions at a pedestrian scramble, diagonal crossing is often permitted. This is usually indicated with diagonal crosswalks which are painted in the roadway, and a sign at the crossing may also indicate that diagonal crossing is allowed.

### ***High Quality Sidewalks***

Sidewalks are a critical element in the creation of good pedestrian environments. Wide sidewalks in good condition facilitate convenient and comfortable pedestrian access. They also provide space for seating and socializing as well as for landscaping amenities like planters and street trees.



*The Julian Street underpass is to be improved to include pedestrian ramps*  
Source: Fehr & Peers, 2010

### ***Enhanced Pedestrian Underpass Connections***

The enhancements of underpasses promote walking connections from surrounding neighborhoods and employment centers to the Station Area. Locations for enhancement are located on Figure 2-6-7. Examples of well-lighted enhanced underpasses are shown below.

### ***Bicycle and Trail Connections***

Bicycles are a convenient means of transportation especially for short trips. According to the U.S. Department of Transportation, one-quarter of all trips in the country are under one mile, and about 40 percent of all trips are two miles or shorter.

The City’s Envision 2040 General Plan Update calls for the

development of a safe, direct, and well-maintained transportation bicycle network that links residences, employment centers, schools, parks and transit facilities. The General Plan’s proposed goals include promoting bicycling as a priority mode of transportation for both commuting and recreation.

While bicyclists may legally ride on any city street, many streets do not provide a bicycle-friendly environment. Streets with high volumes or faster traffic speeds can be intimidating to cyclists, especially when no roadway space or bike lanes are provided. Disconnected and incomplete bicycle facilities can strand bicyclists before they reach their destination.

**Station Area Bicycle Network**

The Station Area Plan envisions a well-connected network of bicycle priority streets that facilitate easy bicycling access in and around the station area. The proposed bicycle network includes many new Class II bicycle lanes on streets in the station area. It also includes new Class I multi-use trails and Class III bicycle routes. Taken together, they comprise the network of bicycle priority streets that will provide convenient and safe bicycle access to the station and other nearby destinations.

Existing and proposed bicycle priority streets are listed below and identified on Figure 2-6-8.

**East-West Bicycle Connections**

To ensure east-west bicycle connectivity, three key connections are proposed. They include:

- Cinnabar Street: Class I and III bike facilities are proposed on Cinnabar Street east of Montgomery Street, which would provide an east-west connection in the northern part of the Station Area and a connection to the Guadalupe River Trail.



*Existing Conditions, Montgomery Street*  
Source: Fehr & Peers, 2010



*Existing wide sidewalks on The Alameda*  
Source: Fehr & Peers, 2010

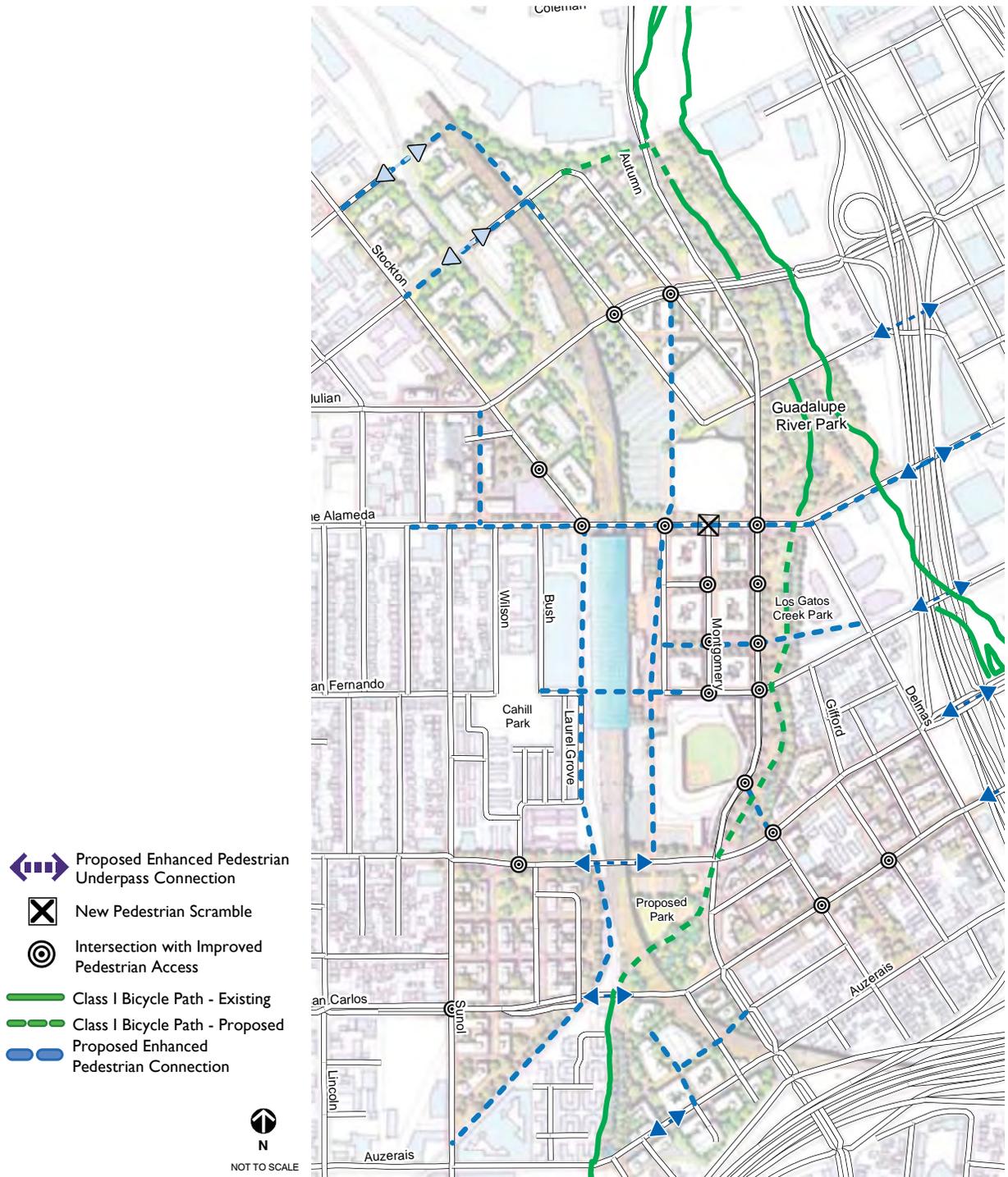


*Enhanced Underpass, Arizona*  
Source: Bike Ped Images, 2010



*Enhanced Underpass, Arizona*  
Source: Bike Ped Images, 2010

FIGURE 2-6-7: WALKING CONNECTIONS



- **Santa Clara Street:** Santa Clara Street is an important bike corridor between the Alameda Business District and Downtown. Bicycle lanes on Santa Clara Street could be buffered or separated from traffic in places to provide a connection that is comfortable for novice as well as experienced bicyclists.
- **Park Avenue:** Class II bike lanes are proposed on Park Avenue west of Sunol Street and east of Bird Avenue, to enhance the currently existing east-west bicycle route through the Station area. This route is identified as a Primary Bicycle Route in the City's Bike Plan 2020. On-street parking would need to be removed on Park Avenue to accommodate new bike lanes.
- **Auzerais Avenue:** Class II bike lanes are also proposed on Auzerais Avenue, which would provide an east-west connection in the south part of the Station Area.

### ***North-South Bicycle Connections***

To ensure north-south bicycle connectivity, three major corridors in the station area are proposed. They include:

- **Gifford Street:** Gifford Street is proposed to be developed as Class III bicycle boulevard that would provide north-south connections between San Fernando Street and Auzerais Street. This street would be an important bicycle connection between the mixed use corridor on San Carlos Avenue and the Central Zone .
- **Autumn Street/Bird Avenue:** Autumn Street south of Park Avenue is proposed to be a Class II bicycle lane, Class III bicycle route between Park Ave and Santa Clara Street, and Class I bicycle path is proposed north of Santa Clara Street. This connection would provide a direct bicycle commuter connection between the existing bike lanes on Bird Avenue to the south and Coleman Avenue to the north.
- **Sunol Street/Stockton Avenue:** Sunol Street is proposed to

be a Class III bicycle route that will provide a direct connection on the west side of the Station that would be a link between the east-west routes in the area. It would also connect to proposed bicycle lanes on Julian Avenue, thereby providing a continuous route from the neighborhoods to the west of the station to the planned office uses to the north of the station and to the Guadalupe River trail.

### ***Off-Street Bicycle Trail Network***

Existing and proposed trails are also identified in as part of the Station Area Plan. The development of these trails is consistent with San José’s Green Vision (2007) goal to create 100 miles of interconnected trails within San José. To promote bicycle and pedestrian connectivity, trail connections, such as trail grade separations and at-grade crossings, are proposed to be developed along Los Gatos Creek and Guadalupe River. The existing and proposed trail improvements are shown on Figure 2-6-8.



*Bicycle boulevard with high visibility bicycle stencilling*  
 Source: Payyon Chung (flickr.com)



*Guadalupe River Trail*  
 Source: Coyote Valley Plan, 2008

With one noteworthy addition, the proposed trail improvements along the Los Gatos and Guadalupe Creek are contained within the City’s Trail Master Plans. The addition is that this Plan proposes that a bicycle trail be developed along the creek between San Fernando and Santa Clara Streets. Expansion of the trail on the east side of the creek into a multi-use path to accommodate bicycles would need to be coordinated with the VTA to ensure that the path crossing at the light rail station is safe for bicyclists and also would need to be conditioned as part of the adjacent planned high density development. If, at some point in the future, the City were to purchase the private properties between Autumn Street and Los Gatos Creek for park land, a multi-use trail segment could alternatively be located on the west side of the creek.

This Plan also identifies a potential trail connection across the intersection of Montgomery Street and Park Avenue that should be explored as opportunities arise. The present Los Gatos Creek

Trail Master Plan locates the trail connection at this intersection at grade, using widened sidewalks and crosswalks, leaving the Los Gatos Creek in its existing box culvert. While this is the most realistic and cost effective approach to providing a connection through this intersection, the Good Neighbor Committee and community members have strongly expressed a desire to restore the natural setting of the creek and provide an off-street trail connection at this intersection. The costs of providing a grade separated trail crossing of this intersection and restoring the natural setting of the creek are anticipated to be significant and would likely require the taking/purchase of adjacent private property. Hydrological and further environmental studies would be required with any proposed creek rerouting. Nevertheless, this Plan recommends that, if funding and construction opportunities arise, the City re-explore this rerouting of the Los Gatos Creek and/or the reconstruction of this intersection as a means to both daylight this creek segment and to provide an off-street trail connection.

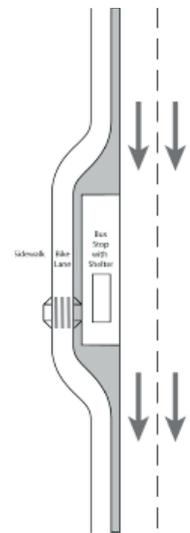
Grade separations are categorized into two tiers, with the top tier projects being the ones that would provide a useful connection between separated trail segments.

Tier 1 Grade Separations include:

- Montgomery Street / Park Avenue intersection crossing (Los Gatos Creek Trail)
- Caltrain Tracks (Los Gatos Creek Trail)
- Santa Clara Street Crossing (Los Gatos Creek Trail)

Tier 2 Grade Separations include:

- San Fernando Street crossing (Los Gatos Creek Trail)
- VTA Light Rail Track crossing (Los Gatos Creek Trail)
- Julian Street Crossing (Guadalupe River Trail)



Example of separated bike lane treatment at a bus stop



Separated Bike Lanes  
Source: Streets Blog, 2010

### *On-Street Bicycle Treatments*

Where appropriate, bikeways in the Station Area should be enhanced through the use of colored bike lanes or other treatments that make bicycle movement comfortable and convenient. Goals outlined in the Circulation Element of the City's Bike Plan 2020, provides a foundation for enhancing the bikeways network and increasing the mode share of bicycle travelers. Colored bike lanes, "sharrows", separated bikeways and other treatment could be used to highlight conflict zones and increase the visibility of bicyclists.



*Sharrow*  
Source: Streets Wiki, 2010

**Colored Bike Lanes:** Using colored pavement in the bike lanes has several benefits: safety, comfort, and promotion. Colored pavement helps visually elevate the prominence of the bike lane on the road, further defining the cyclists' space and helping differentiate this road space from that which motorists feel free to use. The coloring is a constant and bold visual reminder to motorists that the bike lane (and hence, cyclists) are present.

**Separated Bike Lanes:** A separated bike lane, sometimes also described as a "cycletrack" or a buffered bike lane, is any section of a street reserved solely for bicycle traffic. Separated lanes attempt to provide a safe space for these non-motor vehicles. Bike lanes can be demarcated physically (e.g. with a concrete barrier) or non-physically (e.g. with paint). At bus stops, separated lanes can be located to the right of a stop, thereby reducing potential conflicts between buses and bicycles.

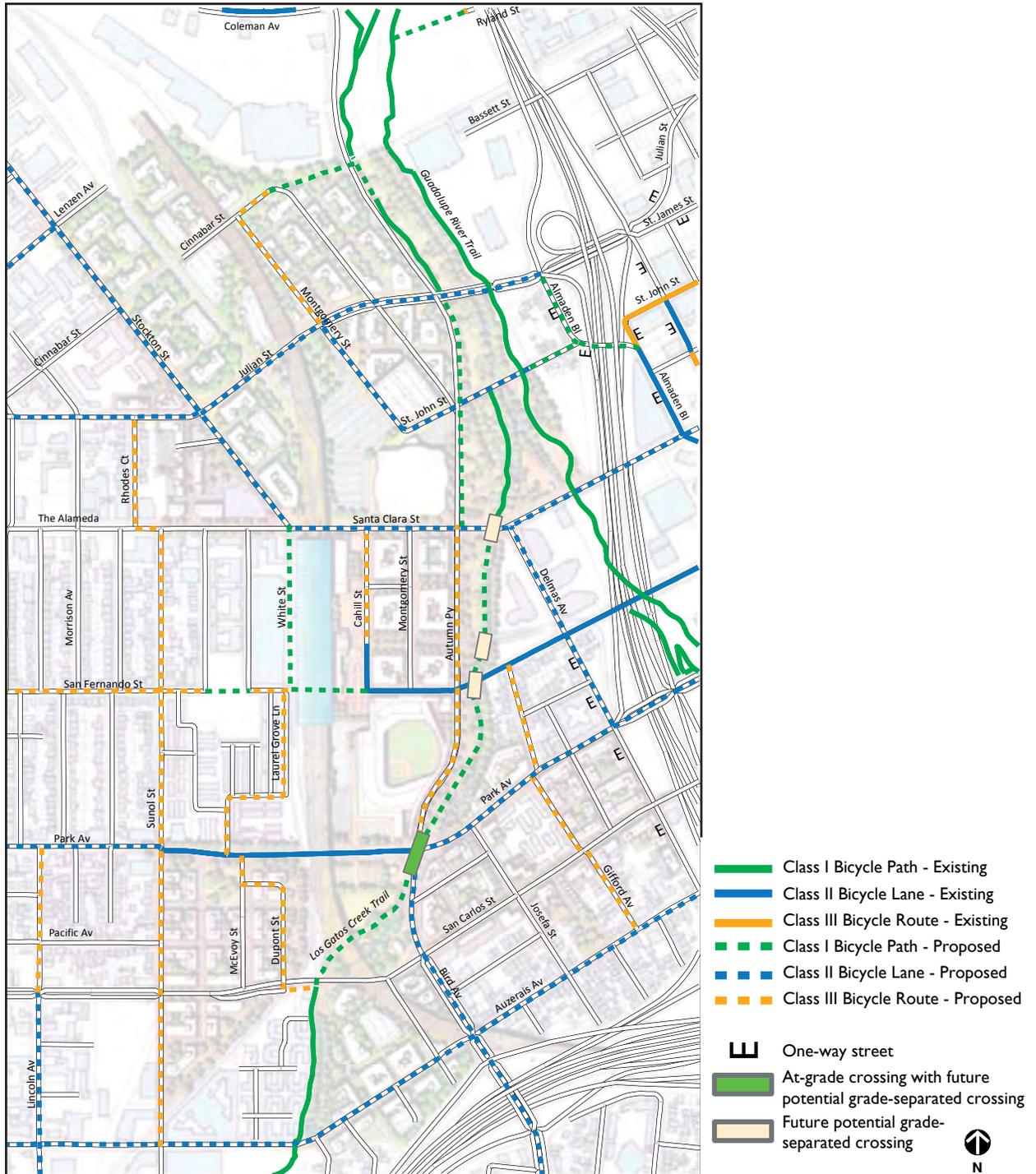


*Colored Bike Lanes*  
Source: Mike Peterson, 2009

**Bicycle Boulevard:** A bicycle boulevard is a low-traffic volume street that is designed primarily for bicycle access, though it accommodates motor vehicles as well. They work well in residential areas and on other streets where there is not sufficient room to stripe a Class II bicycle lane. Gifford Street is a proposed as a bicycle boulevard connection in the station area.

**Sharrow Markings:** A "sharrow" is a pavement marking installed on streets that are too narrow for Class I or Class II bike lanes,

FIGURE 2-6-8: EXISTING AND PROPOSED BICYCLE AND TRAIL FACILITIES





Washington Bikeshare Program  
Source: Cool Town Studios, 2009



Downtown Berkeley BikeStation  
Source: Cosmic Country (flickr.com)



Attended bike parking at San Francisco Giants AT&T Park  
Source: LA Times

but has high bicycle traffic volumes. The “sharrow” is intended to indicate where bicyclists should ride to avoid traveling within the door zone of parked cars. It also alerts motorists to share the road with bicyclists and conveys that the street is a preferred bike route.

### ***Bicycle Parking and Bike Sharing Program***

To enhance the viability of bicycle travel within the Diridon Station Area it is vital that the Station Area provide sufficient bicycle parking opportunities. Bicycle parking ranges from short-term parking amenities, such as bicycle racks in highly visible and secure locations near building entrances, to long-term parking facilities, such as lockers or cages where bicycles are either locked individually (lockers) or with limited access (cages).

The Diridon Station area currently has two public bike sharing locations in a demonstration program. A permanent public bike sharing program should be established that allows free or low-cost rental of bikes at key generators (e.g., San José State University) to encourage cycling as a primary mode and facilitate use of transit without having to transport a bicycle. Public bicycle parking should be provided in areas within the Station area. Bike stations are provided at the Ballpark, San José Arena, and Diridon Station. Figure 2-6-9 shows the locations of existing bike sharing, proposed public bicycle parking, and bicycle stations.

FIGURE 2-6-9: STATION AREA BICYCLE PARKING CONCENTRATIONS



## TRANSIT

Access and connectivity to and from nearby transit facilities is critical to take full advantage of the mixed-use and high density development proposed under the Station Area Plan. Existing and future public transportation services should be enhanced to increase ridership and decrease the use of private automobiles.

### *Bus Stops*

Bus stops within the Station Area should be enhanced with appropriate amenities (shelters, benches, lighting, real-time passenger information) to improve the overall comfort and safety for transit riders. Such amenities enhance comfort and safety for transit riders. Transit stops, identified in Figure 2-6-10, should be enhanced to increase the viability of bus service within the Plan Area and to the surrounding land uses. Installation of transit amenities should be evaluated on a case by case basis to ensure that the amenities are appropriate for a given transit stop and fit within the available right of way.

The addition of real-time passenger information displays for buses and the proposed local shuttle would provide passengers with an added benefit that would improve the waiting experience and help make transit a more effective travel option. This strategy is consistent with the 2007 the Metropolitan Transportation Commission (MTC) Transit Connectivity Plan, which recommends wayfinding, customer information and real time information be installed at key bus stop locations near Diridon Station. These strategies are also consistent with the BART Station Access Guidelines (2003).

In addition, Caltrain is embarking on a program to change the way riders get to and from stations. Caltrain's Comprehensive Access Policy (adopted in 2010) promotes walking access to stations as its highest priority systemwide but acknowledges the need for some



*Downtown Mountain View  
Source: Fehr & Peers, 2010*



*Real-time Passenger Information at  
Bus Stop*

FIGURE 2-6-10: EXISTING AND PROPOSED TRANSIT





*Air shuttle bus service*

level of auto, transit and bike access at a major hub station like San José Diridon. Secondary priority in the Comprehensive Access Policy is transit access, followed by bicycle access and lastly, automobile access. The Access Policy is part of a Caltrain program to evaluate a wide range of improvements to make it easier for riders to walk, take transit or bike to stations – instead of driving.

### ***Connectivity to the Mineta San José International Airport (SJC)***

Though they are less than three miles apart, no direct transit service currently connects the Airport with Diridon Station. The plan proposed a new shuttle service route that directly connects the Station to San José International Airport. Shuttle frequency should provide service three to four times per hour to provide adequate connectivity and to increase the vitality of transit service in the Station Area. It would also provide for better sharing of Diridon station area and airport area parking spaces. This route is identified on Figure 2-6-10

As part of the potential future automated transit network at the Mineta San José International Airport, the City is also evaluating the feasibility of a personal rapid transit (PRT) connection to the Diridon Station area – which could eventually replace shuttle service.

## **COMPLETE STREETS**

The term “complete streets” describes a comprehensive approach to the practice of mobility planning. Complete streets principles recognize that transportation corridors have multiple users with different abilities and mode preferences. Transportation corridors are seen as being able to accommodate expected traffic demand yet also provide additional facilities to support travel by other modes. The principles of complete streets should be an integral part of the Station Area Plan to provide for a transportation network that successfully integrates bicyclists, pedestrians, and transit users, along with vehicle drivers.

### ***Street Network Connectivity***

Intersection density is the number of intersections in a given area. It corresponds closely to block size (i.e. the greater the intersection density, the smaller the block size). Small blocks make a neighborhood walkable by minimizing walking distances.

A comprehensive national study released in May 2010 concluded that intersection density is the single most important factor for promoting walking activity (Travel and the Built Environment: A Meta-Analysis, by Reid Ewing and Robert Cervero). This study also concluded that intersection density has a large effect on increasing transit use and decreasing vehicle miles traveled. Essentially, areas with greater intersection density have a greater potential for accessibility. One can visualize this characterization of accessibility, by comparing the intersection density of the Diridon Station Area to other locations that are known as successful TODs such as the Pearl District northwest of downtown Portland, Oregon and the Atlantic Station in mixed use development in Atlanta, Georgia. Typically, neighborhoods with an intersection density of at least 150-200 intersections per square mile are considered ideal walking neighborhoods.

The layout of streets in the Station area should be organized as connected network to offer multiple routes to destinations, in order to facilitate vehicular and non-motorized mobility. The existing street grid should be improved by creating new street connections where appropriate. Therefore, the proposed new street connections within the Station Area are critical to achieving the goal of increased walkability. Proposed street connections are identified in Figure 2-6-13.

### ***Station Area Level of Service Policy***

Intersections within the Downtown Core Area, identified in Figure 2 of the Diridon Transportation Impact Analysis, are exempt from the

City of San José's level of service (LOS) criteria and traffic mitigation requirements. Because the majority of the Station Area is located within the Downtown Core, it already qualifies for this exemption. The Station Area Plan also proposes to exempt the additional area within the Station area but outside of the Downtown Core in order to discourage roadway capacity-enhancing mitigation measures.

### ***Street Lighting***

Pedestrian-scale lighting should be provided on key streets, crosswalks, and mid-block crossings. Pedestrian scale lighting provides better lighting of the pedestrian travel way and also provides an improved sense of security and comfort. This strategy is consistent with the San José Downtown Street and Pedestrian Lighting Master Plan (2003), which establishes guidelines that address future development, including incremental changes to lighting in the "Greater Downtown" area which includes areas within the Station Area Plan but to the east of Diridon Station. The Lighting Master Plan addresses the public right of way through the illumination of pedestrian paths and streets.

### ***Streetscape Features***

Streetscape features should be provided along key streets within the Station Area. Streetscape features, such as street lights, trees and landscaping, and street furniture can contribute to the unique character of a block or entire neighborhood. Streetscape features such as street lights and trees are consistent with San José's Green Vision (2007) goal to plant 100,000 new trees and replace 100 percent of streetlights with smart, zero emission lighting.

### ***Green Street Features***

Impervious surfaces, open channels and swales should be considered at appropriate locations. Permeable pavers can be used in many areas of the streetscape, and add attractive variety



*Pedestrian-scale street lighting*  
Source: San Francisco Better Streets Plan



*Generous sidewalk with pedestrian and bike-friendly street furniture*  
State Street, Santa Barbara  
Source: Fehr & Peers 2010

to typical paving. Some permeable systems allow storm water to flow between pavers. Others provide a solid surface without gaps. Permeable paving can be used on streets, alleys, and driveways not only to help address storm water issues but also contribute to streetscape aesthetics with unique textures and materials. On alleys, shared streets, and other streets with low traffic volume, permeable paving can be used as a special paving material to reinforce the pedestrian-oriented scale of these streets.

Street swales are long narrow landscaped depressions primarily used to collect and convey storm water and improve water quality. They remove sediment and reduce nutrient concentrations within runoff, through natural treatment prior to discharge into storm water management facilities. In addition to providing pollution reduction, swales also reduce runoff volumes and peak flow rates by detaining storm water. Swales add significant landscaping to street corridors and reduce impervious surface. Swales may be appropriate on residential green streets, as well as on parkways and other landscape streets, and in medians on many street types.

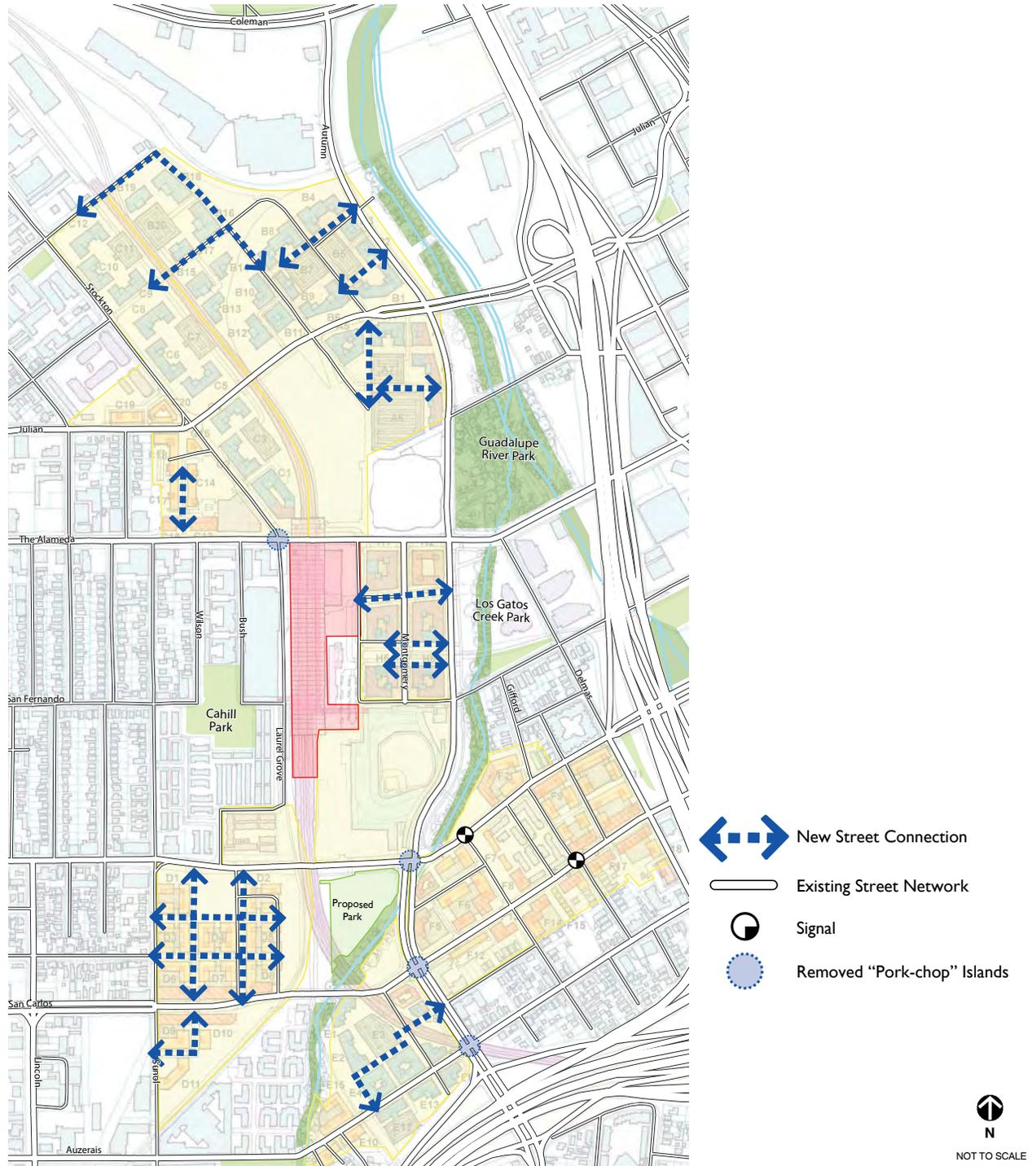


*Permeable pavers*  
Source: San Francisco Better Streets Plan



*Street swale*  
Source: San Francisco Better Streets Plan

FIGURE 2-6-13: PROPOSED NEW STREET CONNECTIONS



## 2.7 Transportation and parking demand management

### Executive Summary

#### PARKING RATIOS

The future parking analysis for the preferred alternative is in conformance with the Envision San José 2040 General Plan goals and policies for VMT reductions and mode shift changes. Although aggressive, the parking ratios based on this analysis are appropriate for a multi-modal rich environment such as the Diridon Station Area. The preferred alternative includes a unique set of planned developments, including several mixed use developments, concentrated areas of office, commercial, and industrial use as well as pockets of entertainment and hotel uses surrounding the station and a planned ballpark.

The proposed parking ratios in this analysis are projections of future parking ratios to be achieved upon the complete implementation and development of this Plan. These proposed parking ratios will also be used to estimate full development capacity in the Diridon Station Area and will be used for analysis in the Environmental Impact Report (EIR). The proposed parking ratios are not being recommended as revisions to the City's Zoning Code; They are to be used for analysis of potential future development and related parking. Parking revisions will be explored and developed as a next step in the planning process for the Diridon Station Area. Given that maximum parking ratios are not proposed, developers could build more parking spaces than would be provided with the projected future parking ratios. If this were to happen, then additional parking would need to be built in lieu of development capacity, potentially resulting in less overall development for the Diridon Station Area than projected future in this Plan.

## PARKING SUPPLY

All retail and restaurant parking in the downtown will be supplied off-site by the projected future commercial and mixed use developments. The rationale behind these parking requirements is that office and retail/restaurants have high parking demands at different times of the day and would be able to share the same supply.

Project-based parking supply identified in this section of the report does not include the expansion of the San José Arena surface parking lot with a 900+ parking structure. The potential contribution that this additional supply could make toward meeting the cumulative project-based parking demand is discussed further in Section 4.2.

This analysis assumes that only a small portion of high speed rail patrons will be accommodated within ½ mile of the station area, an approach agreed to by the CHSRA. The remainder of the high speed rail patrons would be accommodated in off-street facilities within a three-mile radius of the projected future station.

The development capacity of the Diridon Study Area does not lead to parking supply deficits. When transit (park and ride) is added to the total demand, the projected supply covers the lower end of the demand, but San José Arena parking supply would be required to cover the deficit for the higher end of the demand projection range. Parking supply is described in detail in section 4.2 of this report.

## PARKING MANAGEMENT & TDM

Parking supply issues can also be addressed through parking management and transportation demand management tools. A well designed parking management program can more efficiently manage existing parking supply and meet development goals, than

simply adding more supply. Parking management tools include supply management approaches that support development goals and maximize the use of existing supply such as parking trade, shared parking, advanced parking reservation systems and wayfinding and guidance systems. Demand management approaches such as on and off-street pricing, unbundling and cash out provide transparency to the cost of transportation mode choice decision-making.

In addition to parking focused management tools, a companion transportation demand management (TDM) program would encourage the adoption of alternative modes of transportation and support the efficient use of the Station Area's valuable parking resources. These measures include design-based and program-based strategies that aim to balance short-term and long-term demand while encouraging the use of the alternative modes of travel. TDM program strategies could at a minimum include (1): discounted transit passes, carsharing programs, biking facilities (lanes/trails, lockers, bike sharing, bike valet), guaranteed ride home programs, employee shuttles to Diridon station.

*(1) Refer to Figure 2-6-5 and 2-6-6 for a detailed list of Diridon Station Area Transportation Strategies that are recommended to support alternative modes of transportation to the Station Area.*

## Parking Management Plan

The overarching goals for developing a station area parking management plan are to:

- Support the City's land use and TOD vision.
- Support and encourage the use of transit.
- Capitalize, to the extent possible, on shared use parking to achieve maximum efficiency in the use of parking spaces and to limit the total number of parking spaces needed.
- Enhance the economic vitality of the Diridon Station area, including the Arena, other existing land uses, and future development.
- Protect the surrounding neighborhoods and businesses from spillover commuter parking.

The following are recommended parking supply management methods and demand management methods that will achieve the above goals and should be included in the Parking Management Plan.

### PARKING SUPPLY MANAGEMENT METHODS

The parking supply established in the final plan can be supplied with a variety of methods. It is important that there be flexibility in methods between subareas and developers in order to facilitate development in the overall study area. Methods can range from building new parking facilities, or increasing the capacity of existing facilities through re-design or valet services, taking advantage of underutilized supply by leasing or sharing nearby facilities. Wayfinding and parking guidance systems, such as those currently in use by the City of San José, make better use of existing systems by helping users find available parking. Parking trade programs

also allow a district that is operating under a parking cap to trade “un-built” parking between developments. Additional programs include transit based preferential parking and reservation systems that are currently in practice with BART. Following is a discussion on parking supply management tools recommend for the Diridon Station Area.

### ***Parking Trade Program***

Parking trade programs are a new concept that allows private sector entities to share parking resources to meet their parking requirement. It can also be used to support private commercial development by building shared parking supply in advance and allowing the developments to purchase parking entitlements for their projects as development progresses in the area.

A parking trade program was recently approved for use in Downtown San Diego, California and to allow new developers to work with existing buildings, using unused, existing parking spaces to meet their parking requirement. For example, if an existing development only is using a portion of their parking and has excess parking available, it can issue 1.5 parking credits per publicly available parking spaces. If Building A (2) has 500 parking spaces, and only uses 250 spaces it would be allowed to “sell” or “trade” to Building B. This example assumes that the excess supply is oversold as it will be shared with complementary uses in the area. Parking will be shared provided Building A can demonstrate that it has the capacity to handle additional parkers; Building B would now use this as part of its parking requirement. In this example building A is a shared parking facility. Whatever amount of parking it shares with other buildings to help meet their parking requirements should be part of the conditional use permit with parking rights specified for a set period of time in the project entitlements. If the parking supply goes away, the projects will need to entitle an alternate supply.

*(2) (Alternatively Building A could be a parking garage in this example that has unentitled/available parking.*

In the case of the Diridon Study Area, the parking supply will be developed over time as the area develops. The trade program will allow one developer to purchase parking supply rights from another developer who has more parking than their project needs and is required to provide per the zoning ordinance. This approach allows for the natural push and pull of the development process. Some developments in the core may be better able to take advantage of proximity to the Diridon station and will want to build at higher density. Other developers to the north and south may be more inclined to build at lower density and provide more supply. Overall, the district will be designed to build to the recommended supply.

The amount of parking credits per space required should be based upon an approved parking management study that examines inventory, utilization and turnover. Excess parking can then be used by a new developer to meet their parking requirements. This creates an incentive to share parking and allows accessory parking to be used for other uses. It is based upon the zoning parking credit concept developed in Pasadena, California.

In 1983, the City of Pasadena created the mechanism to finance multi-use public parking structures that included tax increment funds, rent commercial tenants within the garages, zoning parking credit contracts, and net operating income.

The zoning parking credits is a contract between the City of Pasadena and Private Developers and/or Tenants to claim parking spaces for building permits and occupancy permits. It is not an 'in-lieu' program because it required the development and assignment of parking to new development. The "Parking Credit Program" enables businesses to meet their off-street parking requirements and the city issues 1.5 parking credits per space in the public garages. Businesses that buy credits to meet the city's parking requirements do not receive permits to park in the municipal structures.

The parking credit program began in 1987, and by 2001 the city

had allocated 2,350 credits. This allows businesses to satisfy the city's parking requirements without providing any additional on-site parking spaces. Because the city reduces the off-street parking requirements in Old Pasadena by 25 percent and issues 1.5 parking credits per public space, Old Pasadena has fewer parking spaces than the rest of the city does.

### *Shared Parking Program*

An imbalance in the use of parking supply can be addressed through very efficiently through mechanisms that allow multiple land uses to share parking in one or more facilities. Shared parking takes advantage of the varied peaking characteristics of parking facilities depending on the land use or uses served. Parking dedicated to office land uses, for example, experiences peak usage during the workday. In contrast, parking demand for nearby retail stores typically peaks during weekday evenings and weekends. A shared use arrangement between the owners of each land use type would result in fewer total spaces needed than if each land use had to fully park its peak demand. A shared parking clearinghouse would bring together parking facility owners and managers with complementary parking needs. Negotiations on the terms of shared parking use would take place within this parking facility "marketplace."

Shared parking is in many ways the catalyst that can help advance other key parking strategies. In particular, shared parking plays a pivotal role by allowing the current un-tapped supply of private parking to be "freed-up" for use by demanding parking patrons. Furthermore, given existing land-use constraints in each of the subareas, shared parking takes advantage of existing resources and provides an opportunity to maximize utilization. It should be noted that shared parking is inextricably linked to reduced parking requirements. Shared parking allows existing resources to be used efficiently, while reduced parking requirements release developers from the obligation of providing excessive parking which will likely go underutilized. Both of these strategies help to support and reinforce one another.

### ***Valet Parking Program***

Valet parking can be used as a method to increase parking supply as part of a regular practice or to handle overflow peak parking events. This is a good solution for individual property owners that need to increase parking supply or for a business district that would like to increase parking access for visitors and shoppers to the district. One approach that could be considered to maximize the use of public parking is universal valet parking which is a service that is offered as a service in Old Town Pasadena. Universal valet allows customers to drop their car off at over 10 kiosk locations and arrange to pick up their car at a different stand in the district. Participating merchants provide discounts for the program.

### ***Wayfinding and Parking Guidance Systems (PGS)***

Directional signage that guides and informs patrons to and from parking areas improves the customer parking experience and creates greater efficiencies in circulation and movement. The city has developed an advanced parking information and guidance system (PGS) that provides real-time information to users. This includes the amount of parking available at any location in the system. The City should integrate the Diridon Study Area's future parking assets into the existing parking advanced parking guidance system to facilitate their optimal use.

### ***Advanced Parking Reservation Systems (APRS)***

Tools that allow customers to make parking reservations in advance, or an on-line reservation system – gives them the flexibility to plan for both their short term (daily) and long term (airport) travel needs. The Bay Area Rapid Transit (BART) System has an internet based advanced parking reservation system (APRS) for several of its most high demand stations. Advanced parking reservations are allowed for limited/designated single day reserved parking spaces and are released if not occupied by 10:00 AM. The reserved spaces

are charged at a premium over the regular daily fee parking which fills between 7:00-8:00AM. The APRS also manages airport/long term parking permits and monthly reserved parking permits for designated areas around the stations. The APRS provides BART the flexibility to manage and provide parking for a large spectrum of user types.(3)

### ***Residential Permit Parking (RPP) Program Expansion***

The City of San José has a successful residential parking permit program which consists of 16 zones around the San José State University, San José Arena /Diridon, the Convention Center, Civic Center, and Flea Market. Figure 2-7-1 summarizes the RPP zone enforcement days and hours.

Residential permits are sold for \$30/year or \$30/2-years depending on the zone.. The maximum allowable permits issued per household vary from 3 to 4 permits. Visitor permits are also sold at \$30/year or \$30/2 years and a maximum of 2 permits are issued per household. In addition to residential parking permits, downtown residents can also purchase discounted overnight parking at four garages in the downtown. Residents who purchase the discounted card can park in the garages Monday through Friday from 5:00 p.m. to 8:00 a.m.(4)

The San José Arena permit parking zone area includes four areas delineated near the San José Arena /Diridon Station: 1 Garden/Alameda, 2: St. Leo's, 3: Autumn/Montgomery and 4: Parkside. Permits in the San José Arena zone are enforced at all times. The City of San José may consider expanding the boundaries of the San José Arena Permit Parking Zone over time as development proceeds and conditions change in the area.

(3) <http://www.bart.gov/guide/parking/index.aspx>

(4) [http://www.sanjoseca.gov/transportation/permits\\_parking.htm](http://www.sanjoseca.gov/transportation/permits_parking.htm)

FIGURE 2-7-1: RESIDENTIAL PARKING PERMIT ENFORCEMENT

Permit Parking Zone	(5), (6) Hours	Days
Arena (Autumn/Montgomery, Garden/Alameda, Parkside, St. Leo's)	Need permit at all times	
Berryessa	10:00 a.m. – 6:00 p.m.	Weekends and holidays
Civic Center	9:00 a.m. – 5:00 p.m.	Monday through Friday
Civic Plaza (Horace Mann) (South University Neighborhood)	8:00 a.m. – 6:00 p.m. 8:00 a.m. – 8:00 p.m.	Except Saturdays, Sundays, and Holidays Except Sundays and Holidays
Market-Almaden	Need permit at all times	
University	8:00 a.m. – 8:00 p.m. 8:00 a.m. – 4:00 p.m.	Monday through Thursday* Fridays*

\*enforced September 1<sup>st</sup>-June 1<sup>st</sup>

### *Preferential Parking*

Preferential parking policies can be used to allocate parking resources. After allocating parking for the primary user (customer or resident), preferential parking policies can be used to create parking for carpools and vanpools. Preferential parking can be developed by providing a “preferential rate” or by proximity to entry ways, etc. or a combination of both. Preferential parking policies can also be used to allocate parking spaces at light rail stations for carpools and vanpoolers. BART provides preferential parking for carsharing spaces and carpools at every station that provides parking. Carpool parking spaces are limited to first-come, first-served and are subject to the daily parking fee station dependent (7). Seattle, Washington requires preferential rates and stall locations for carpools when approving Transportation Management Plans (TMP’s) for new development. Portland, Oregon requires that short-term visitor stalls be located and signed (e.g., “visitor parking only – 3 Hour Maximum”) on the lower levels of above grade parking garages under its “Visitor Parking” approval classification (8).

(5) Permit Parking Zones and enforcement details provided by City of San José Residential Parking Permits Office. February 2011.

(6) <http://www.sanjoseca.gov/transportation/forms/rppmaparena.pdf>

(7) <http://www.bart.gov/guide/parking/> (Accessed 2/22/2010)

(8) Title 33, 33.510.263 of the Portland Central City Transportation Management Plan (CCTMP)

## PARKING DEMAND MANAGEMENT METHODS

### *On-Street Pricing*

Establishing a pricing system for on-street parking will be especially important in the area immediately adjacent to the Diridon Station to support alternative transportation access and quick parking turnover. Pricing will vary based on location with higher pricing at the station and lower gradations of pricing moving away from the station to support these access and development goals.

### *Coordinating On and Off-Street Pricing*

Coordinating on and off-street and parking prices is a strategy that will make on-street management efforts like pricing function more smoothly and have a greater impact. Users typically prefer on-street parking over off-street options but in many cities the per hour cost of on-street parking is lower than the cost of an off-street space. Where possible, on-street and off-street prices should be set to encourage long term parking to occur off-street, reserving the more convenient on-street spaces for short term parkers. This encourages commuting employees to use alternative modes while still providing short term parking for customers. Coordinating on and off-street parking prices is challenging for several reasons. While the City can adjust prices on-street and in the garages it owns, it is unable to directly set rates in the private garages that make up the remainder of San José's paid off-street supply. Similarly, if there is a large discrepancy between on-street prices and market rate garage prices, it may be politically difficult to raise on-street rates to the point where they match off-street prices.

Aspen, Colorado (1999) is an example of a community that has successfully balanced on-street and off-street parking pricing policies. Aspen changed its parking pricing structure to increase the availability of prime on-street parking (short-term customers) and increase the utilization of its off-street municipal parking structures

(long-term visitors and employees). Funding from parking is used to pay for parking improvements, improve streetscape and encourage the use of alternative modes (Aspen 1999).

In California, the cities of Glendale and Pasadena also recognized the importance of balancing on-street and off-street pricing. In both cases, the cities created on-street parking pricing systems to encourage better use of off-street public parking facilities.

### ***Unbundling Parking***

The City of San José can create incentives to unbundle the cost of parking from residences and businesses. Unbundling is separating the cost of parking from the cost of the use (paying separately for use of a building and parking). It may be used to reduce parking in retail, office or residential developments.

#### *Example: FHWA Value Pricing Pilot Program – San Francisco*

*A Value Pricing Pilot Program study sponsored by the FHWA in 2010 in San Francisco studied both unbundling and carsharing at existing developments to test the impact on vehicle ownership and housing choice. Some key findings from the analysis included (9):*

- *The presence of both car sharing and unbundled parking within a building significantly reduced household vehicle ownership rates.*
- *Average vehicle ownership decreased significantly with the presence of car sharing and unbundled parking (0.76) compared to those properties with neither (1.03)*
- *For 22% of respondents, the presence of car sharing impacted their housing choice. This increased to 48% for households without vehicles and was a significant factor in their residential location decision*

(9) [http://ops.fhwa.dot.gov/tolling\\_pricing/value\\_pricing/projects/not\\_involving\\_tolls/autousecostsvariable/ca\\_carshareinnov\\_sf.htm](http://ops.fhwa.dot.gov/tolling_pricing/value_pricing/projects/not_involving_tolls/autousecostsvariable/ca_carshareinnov_sf.htm)

Unbundled parking is the critical first step toward the development of off-street parking pricing and reducing the amount of free parking. Traditional suburban developments generally hide the cost of parking supply in tenant lease rates or common area fees. This perpetuates free parking and masks the true cost of access to those making transportation access decisions. To this end, unbundling parking in leases should be encouraged – if not required - for future development. This reduces the hidden cost of parking and allows tenants and users to make decisions based upon the market price of parking.

*Example: The Los Angeles County Metropolitan Transportation Authority (LACTMA)*

*The Los Angeles County Metropolitan Transportation Authority (LACTMA) has provides congestion management credits for projects that unbundle parking from developments.(10)*

*Example: Kruse Way, Lake Oswego, Oregon*

*Kruse Way, a commercial/office development in Lake Oswego, Oregon began an “unbundling pilot” program by providing a number of key and highly desirable parking stalls near its headquarters building as premier stalls, available for \$100 per month. All other stalls in the headquarters supply were bundled (with no cost to users). All of the unbundled stalls were sold, with a waiting list created for those waiting for stalls.*

A projected future incentive is to reward new development for unbundling parking. If a new development is willing to unbundle parking at a price equal to the full cost of parking construction and development (as determined by an independent study of parking development cost), new development may seek a conditional permit review and request up to a 10 percent reduction in the minimum parking requirements. The development may also

*(10) Kodama, Willson and Francis, 1996.*

unbundle parking below market rate and receive a reduction equivalent (for example, if a parking space costs \$30,000, and a developer charges \$15,000, it would receive a 5 percent reduction in the minimum parking requirement). This can be used for retail, office and residential projects (such as a new townhouse or condominium projects).

*Example: Los Angeles Adaptive Reuse Ordinance (ARO) Study*

*In 1999, the City of Los Angeles passed an Adaptive Reuse ordinance (ARO) which was designed to encourage the conversion of vacant commercial buildings into housing in downtown Los Angeles. The ordinance included a streamlined incentive process and exemption from minimum parking requirements. Donald Shoup and Michael Manville studied 53 ARO buildings that were redeveloped by 2007. They found that ARO developers typically unbundled parking (where most other developers did not) and that the relaxation of the minimum parking requirements allowed the developers to meet the many and varied preferences for consumer housing demand, and gave them the ability to provide more housing.(11)*

**Parking Cash-out**

Parking cash-out allows employees to choose between a parking subsidy (free parking), or the out-of pocket equivalent cost of the parking space. Employees may choose to apply the money towards their parking space or make arrangements to use a lower cost alternative mode and keep the cash. Although parking cash out programs are often lumped under the umbrella of "TDM," they are singled out here because of their direct impact on the parking system. A study on parking cash-out summarized results from eight work sites and estimated a 26 percent reduction in parking demand.(12) In recent years, the definition of cash-out has

(11) <http://www.uctc.net/research/briefs/PB-2010-02.pdf>

(12) Shoup, Donald. "Evaluating the Effects of Cashing Out Employer-Paid Parking: Eight Case Studies," *Transport Policy*, Vol. 4, No. 4, October 1997, pp. 201-216.

been expanded to provide a more flexible and broad application. Within the past ten years, many employers in downtown Portland, downtown San Francisco and downtown Seattle have created effective programs that eliminate free or subsidized parking while providing employees with transit passes.

## NEXT STEPS & CONSIDERATIONS

For a Diridon Area Parking management plan to be effective it must be integrated within the City's larger framework of parking management. Implementing a parking plan that uses the tools discussed will represent an intensification of current management activities and will require the City to expend additional resources. There are a variety of approaches the City can take to implementing and administering the parking management strategies discussed in this section. Regardless of the specific approach adopted, however, the City will need to consider how to address the following issues:

### *Implementation and Administration*

Developing, implementing, and administering parking management plans across the Diridon Study Area will be a labor intensive process. The City should consider whether to continue with a centralized approach to parking (handled directly through the Public Works Department) or whether they will try a "Parking District" approach where the Diridon Study Area could have more autonomy to manage parking and receive a portion of the revenue generated.

A Parking District is a legal entity established within the boundaries of a city that provide parking impacted commercial neighborhoods with a mechanism to devise and implement parking management solutions to meet their specific needs. The City of San Diego currently has six community parking districts. (13)

(13) <http://www.sandiego.gov/economic-development/business-assistance/small-business/districts.shtml>

The City of Ventura, California has a slightly different approach using a Downtown Parking Advisory Committee (PAC). Ventura's Downtown PAC assists, advises, and make recommendations to the City Council, Planning Commission, and staff on a range of issues related to parking management strategies and programs for their Downtown Parking District Area, including maintenance, operating and capital budgets, hours of operation, parking pricing policies, valet programs, and employee commuter parking policies. PAC members include: one city resident of the district, two business owners, two property owners, one appointed member and one member to represent parking users in general.(14)

#### ***Education and Outreach***

As parking management tools are implemented in the Diridon Study Area, it is important that the City engage in public outreach to support these initiatives. Such education efforts will not only explain how new programs and technologies work, but will also help the public understand the purpose and benefits of parking management programs that users might initially interpret as restrictive or inconvenient.

#### ***Monitoring***

The ongoing monitoring procedure will involve major stakeholders prior to implementing or changing any future parking management plan. After implementing a parking management program, it is critical that the area under management be monitored so that the program can be adjusted as necessary. Setting up an ongoing monitoring procedure is an important part of a parking management plan and should be incorporated into the cost of implementation. New parking technology makes it easier to monitor parking utilization and turnover, therefore adjusting parking operations. How monitoring will

(14) <http://www.cityofventura.net/press-release/ventura-city-council-now-accepting-volunteer-applicants-downtown-parking-advisory-comm>

occur, who will be responsible, and how parking management plans will be adjusted are all questions the City must address.

### ***Enforcement***

Enforcement is key to the success of any parking management plan and as new parking management tools are implemented in San José enforcement activities will need to expand and adjust. The City must decide whether it wishes to continue with the current model of enforcement and simply add more officers and new beats or whether it wants to adjust the purpose and organization of enforcement activities. One alternative model would be to more explicitly target the role of enforcement to promoting parking management activities and to de-emphasize ticketing as a revenue source. For example, the City of Houston has developed a “parking ambassador” program that changes the role of the enforcement office to also include helping customers and visitors pay for on-street parking (rather than only issuing citations).

### ***San José Arena / Arena Management Agreement***

The City will pursue best efforts to maintain a sufficient supply of parking and efficient vehicular and pedestrian access for Arena customers, in compliance with standards set forth in the Arena Management Agreement, in order to ensure the continued vitality of the San José Arena.

### ***Revenue Control and Finance***

The scope of this study did not include an evaluation of the City's current parking revenue streams and labor costs. However, it is important to note that many of the management tools suggested will generate revenue and many will also incur significant costs.

How these resultant costs and revenue streams are managed is an important question facing the City that should be assessed. Options include passing all revenues and costs through the General Fund. The City could also use parking districts or to allocate all or a portion of revenues back to the neighborhoods where they were collected (parking increment program). Parking revenues, even if they are aggregated at the citywide level, can also be targeted to fund alternative modes or to finance new parking supply expansion projects in areas where more physical supply is needed.

## Transportation Demand Management

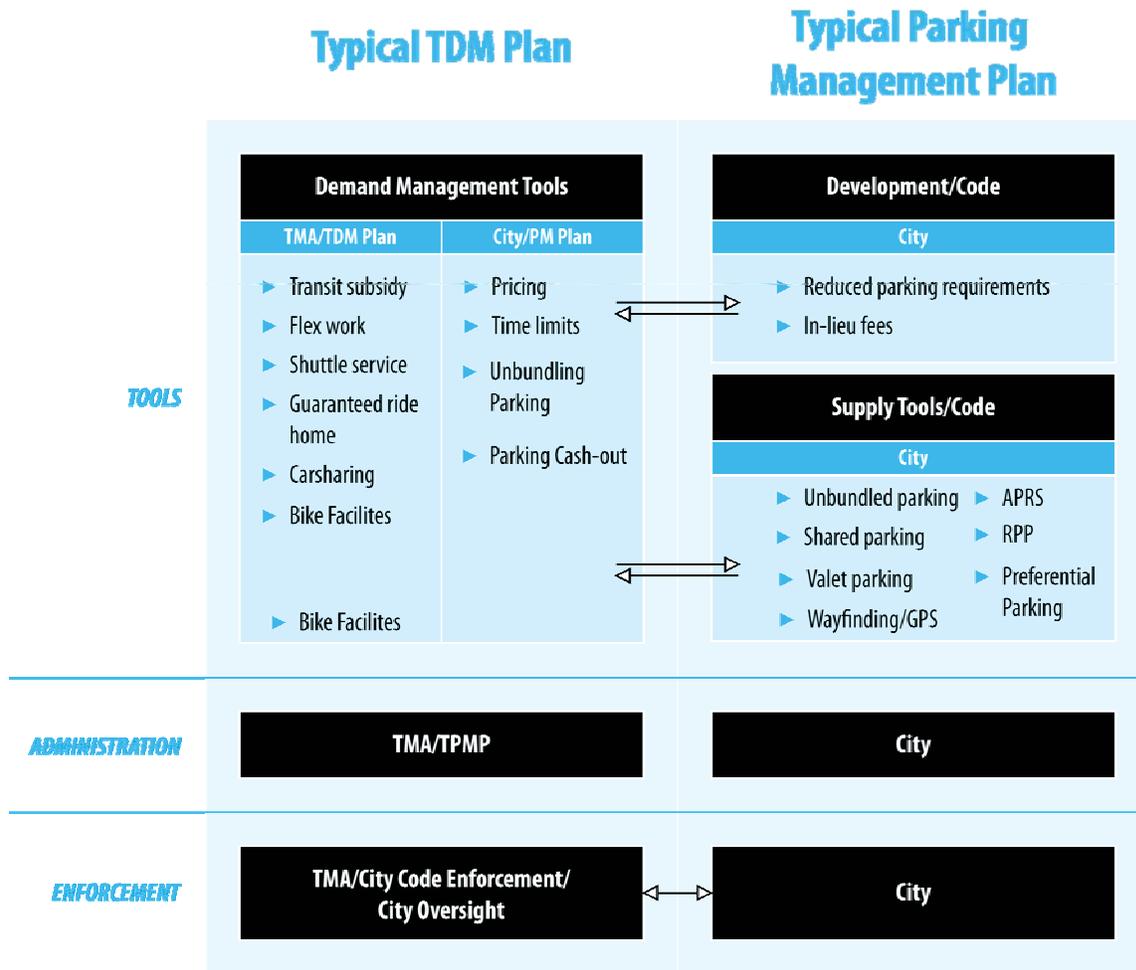
A Transportation Demand Management (TDM) Plan includes supporting increased density, mixed use and increasing alternative mode share. As discussed in the section above demand management is an essential element to a successful parking management program, but parking is only one element of a comprehensive TDM program. Other elements include congestion and traffic reduction, livability, and improved access. Additionally, a TDM program is further defined with respect to how it is administered and enforced.

A parking management program is typically managed by the city and the TDM program is typically managed by a transportation management association (TMA) set up specifically for defined district. The City of San José currently has an active event based TDM program in the Diridon Area.

### ADMINISTRATION

The City of San José prepares and administers Transportation and Parking Management Plans (TPMPs) for major developments. The recently executed 3rd Amendment to the amended and restated San José Arena Management Agreement refers to TPMPs that already have been prepared in the Diridon area and intentions of the City to prepare future TPMPs for the large scale projects. The San José Arena Management Agreement provides a strong basis for the administration of a continuing transportation demand management (TDM) program.

FIGURE 2-7-2: RELATIONSHIP BETWEEN TYPICAL PARKING AND TRAFFIC MANAGEMENT PLANS



The San José Arena Management Agreement commits the City to pursue best efforts to achieve and maintain at least 6,350 parking spaces at Off-Site Parking Facilities available for Arena patrons within one-half mile of the West Santa Clara Street entrance to the Arena, of which approximately half of such spaces will be within one-third mile of the West Santa Clara Street entrance. In addition, the City will manage and facilitate convenient vehicular access to and from parking facilities located in the Diridon Station area. Future TPMPs need to be in compliance with this agreement on order to meet the City’s obligations and ensure the continued success of the Arena as an anchor of the Diridon area and as a regional draw.

## **TDM STRATEGIES**

A TDM plan generally includes strategies that aim to promote and encourage more efficient use of transportation resources. A TDM plan may comprise of a multitude of solutions and evaluative techniques that provide information on measures to increase transportation system efficiency. Most importantly, an effective TDM plan coordinates and encourages the interaction and participation between the community, local government agencies and stakeholders. This cooperation creates a framework for implementing key transportation strategies that establish specific goals and objectives important to both entities.

The transportation network in and around the projected future station area is and would continue to be challenged by increasing roadway congestion. As very limited opportunities exist to increase traffic capacity near the site, effective management of travel demand becomes a critically important tool to accommodate future development and economic growth. Given the location and the nature of the station area, along with the high amount of traffic, transit, bicycle, and pedestrian activity in and around the station area, pedestrian and bicycle safety as well as traffic congestion and transit circulation become key issues of concern within the local community. In order to address these issues, effective TDM strategies are necessary to facilitate and manage travel demand in and around the station area while promoting safety for patrons and residences of the area.

Given the nature of the projected future station area, an effective TDM plan would need to focus on balancing short-term and long-term parking demand, while continuing to maintain a viable, transportation network that allows all patrons access to various modes of transportation. Figure 2-7-3 lists various TDM measures that are applicable to the projected future station area.

FIGURE 2-7-3: TRANSPORTATION DEMAND STRATEGIES

TDM Strategy	Type	Purpose	Goals Supported	Target Audience	Implementation	Coordination/Monitoring
Wayfinding	PP/I	Enhance accessibility/ Promote “Park Once” Initiative	Traffic reduction/ Improve circulation/ Assist short-term demand	Visitors/ Short-term user groups	City/TMA	City/TMA
Bicycle Storage	I	Increase bicycle mode of travel/ Create “bike station” areas	Traffic reduction/ Liveability	Residents/ Employees	City/TMA	City
Bikesharing	PP	Reduce auto-based demand/ Increase accessibility	Traffic management/ Liveability/ Accessibility	Residents/ Employees	City/TMA/ PPP	City/TMA/ PPP
Transit Subsidies/ EcoPass	PP	Encourage alternative modes of travel/ Reduce auto-based demand/ Enhance multimodal environment	Parking management/ Traffic reduction/ Improve circulation/ Liveability	All study area	City/TMA/ Private businesses	TMA
TDM Coordinator/ Rideshare	PP	Reduce employee-based demand	Parking management/ Enhance transit usage/ Traffic reduction	Employers/ Employees	City/ Private businesses	City/ Private businesses
Carsharing	PP	Reduce single-occupancy vehicle demand/ Reduce cost of private ownership/ Increase accessibility	Traffic management	Residents/ Employees	City/TMA/ PPP	City/TMA/ PPP
Flex Work	PP	Reduce peak demand	Traffic management	Employers/ Employees	Private/Public businesses	Private/Public businesses
Shuttle Service	PP	Encourage transit usage/ Enhance mode share goals	Traffic management/ Accessibility	Employers/ Employees	Private/Public businesses	Private/Public businesses
Guaranteed Ride Home	PP	Reduce auto dependency	Accessibility	Employers/ Employees	Private/Public businesses	Private/Public businesses
Parking Cash-Out	PP	Reduce employee-based demand	Parking management/ Traffic reduction	Employers/ Employees	City/Private businesses	City/Private businesses
Parking Pricing	PP	Reduce short-term demand/ Improve off-street parking efficiency/ Promote turnover in high activity zones	Parking management/ Maximize parking efficiency	Visitors/ Employees	City/TMA	City/TMA
Unbundled Parking	PP	Reduce cost of parking development/ Allocate parking needs in required areas	Parking management	Residents/ Developers	City	City
Reduce Parking Standards	PP	Reduce cost of parking development/ Avoid oversupply of parking/ Enhance mode share goals	Parking management	All study area	City	City

**Notes:**

PP – Policy/Program Strategy

I – Infrastructure Strategy

TMA – Transportation Management Agency

PPP – Public Private Partnership

## 2.8 Parking supply and demand

### PROPOSED DEVELOPMENT

The building characteristics and proposed development capacity associated with Preferred Alternative is broken up into three distinct Areas. The Central Zone is a high intensity downtown core with high density office, retail and hotel uses near the proposed station, primarily in the Central Subarea H.

The Northern Zone consists of Subarea A and B which are primarily high density office and research and development (R&D), and Subarea C which has office along the rail corridor and residential retail mixed use adjacent to the existing residential neighborhood.

The Southern Zone consists of Subareas D and F which contain the bulk of the residential units for the plan. Each of these subareas also contain a significant amount of neighborhood supporting retail. Subarea E primarily contains commercial office development with some supportive retail development.

### PROJECTED FUTURE PARKING DEMAND

The following paragraphs present parking ratios for different types of development included in the Diridon Station Area Plan (DSAP). It is important to emphasize that these are preliminary estimates of ratios to represent full development capacity in the Diridon Station area and are used for analysis in the Environmental Impact Report (EIR). These preliminary estimates are subject to change, based on specific development projects and evolving conditions that will affect the overall parking demand in the Diridon Station area.

The projected future parking ratios are not recommended parking revisions to the City's Zoning Code. They are to be used for analysis of potential future development and related parking. Recommended parking revisions will be explored and developed as a next step in the planning process for the Diridon Station Area. Given that the projected future parking ratios are not maximums, developers

could build more parking spaces than would be provided with the projected future parking ratios. If this were to happen, then additional parking would need to be built in lieu of development capacity, potentially resulting in less overall development for the Diridon Station Area than proposed development in this Plan.

### ***Commercial / Research & Development (R&D)***

The recommended parking rate is based on the goal in the Envision San José's 2040 General Plan that sets the goal of reducing SOV trips from about 80% currently to 40% in 2040. The parking analysis is based on a projection of 60% total auto trips with the remaining 40% of trips by other modes of travel (transit, walking, and bicycling). Given this goal, parking ratios for commercial office land uses were adjusted from the current downtown ratio of 2.5 spaces per thousand net square feet of development to a weighted rate of 1.51 spaces, which is a 40% reduction. This rate weighs the developments from the North, South and Central Areas according to the transit benefits, alternative mode improvements, density and mix of uses in each area. Those areas with the highest mix, density and transit benefit have greatest potential for TDM and parking management success, thus have the lowest parking ratios. Therefore, the Central Area has the lowest parking rate at .55 space per 1,000 nsf, the South Area is at 1.4 and the North is at 1.9 .

### ***Retail***

The retail parking rate of zero (0.0) spaces per 1,000 gross square feet is the projected future rate, which is consistent with the current City of San José Downtown Zoning Regulations, as established in the Chapter 20.70 of the City Municipal Code.

### ***Residential***

The recommended residential parking rate is 1.0 space per unit,

which is consistent with current city code. It is split between 0.75 for resident spaces and 0.25 for guest spaces. Guest spaces should be pooled into shareable commercial space when part of a mixed-use development. When the unit configuration allows (e.g., apartment densities versus rows of townhouses), some of the residential parking should be unbundled from the lease or condominium sale price. Car-sharing programs as indicated in the TDM discussion should be explored as a part of each residential development in order to reduce the number of parking spaces required.

### *Hotel*

Hotel parking in a high density transit hub such as Diridon will be well served by 1 parking space per every 5 rooms (0.2 spaces per room). This station area will be highly served by multiple transit and shuttle operators and have easy access to the airport for out of town guests. In a high demand area such as Diridon, that is served by transit, parking is often provided for a fee and by valet service.

### **SUMMARY**

Based on these planned developments, the total projected parking demand would yield a need for approximately 9,127 parking spaces to accommodate this development. This tabulation is detailed by land use type in Figure 2-8-1. It is important to note that the calculations for parking for commercial uses are for net square feet (nsf), which is assumed to be 85% of the gross square feet (gsf) that is listed in Figure 2-8-1.

The Central Zone Subarea (H) would be comprised of 1,146,000 gross square feet of commercial, which includes office uses, 140,000 gross square feet of retail and restaurant use and 250 hotel rooms. Based on the recommended parking rates, the proposed uses would require approximately 586 parking spaces.

The Northern Zone would include 3,012,400 gross square feet of commercial, which includes office and research and development (R&D) uses; approximately 81,100 gross square feet of retail and restaurant use; and 223 residential units. This projected future development capacity would require 5,088 parking spaces based on the recommended parking rates.

The Southern Zone would include 805,000 gross square feet of commercial, which includes office uses; approximately 203,000 gross square feet of retail and restaurant uses, 650 hotel rooms and 2,365 residential units. Based on the recommended parking rates, these proposed uses would require approximately 3,453 parking spaces.

As stated earlier, the parking demand numbers presented in this section are preliminary estimates of the ultimate parking needs for the planned development and are subject to change as development occurs and conditions evolve.

FIGURE 2-8-1: DEVELOPMENT-BASED PARKING DEMAND BY LAND USE CATEGORY AND ZONE

20% VMT reduction		Proposed Development by Land Use				
		Commercial	Retail/ Restaurant	Residential	Hotel	
North	rate	1.9	0	1	0.2	
A. Arena North		576,400	40,300			
B. Julian North		1,634,000				
C. Stockton Corridor		802,000	40,800	223		
	Total	3,012,400	81,100	223	0	
South	rate	1.4	0	1	0.2	
D. Dupont/McEvoy			61,000	1175		
E. Royal/Auzerias		805,000	12,000	155	200	
F. Park/ San Carlos			130,000	1035	450	
	Total	805,000	203,000	2365	650	
Central	rate	0.55	0	1	0.2	
G. Ballpark			0	0		
H. Station East		1,146,000	140,000		250	
	Total	1,146,000	140,000	0	250	
Total Development		4,963,400	424,100	2,588	900	
Projected Parking Demand						
North	5,088	4,864	0	223	0	
South	3,453	958	0	2365	130	
Central	586	535	0	0	50	
	Total	9,127	6,357	0	2,588	180
Weighted Rate		1.51	0.00	1.00	0.20	

Note: The parking ratios for commercial use are applied to net square footage, which is 85% of gross square footage listed in the figure above.

### BALLPARK PARKING DEMAND

The Supplemental Environmental Impact Report for the projected future Major League Baseball (MLB) Ballpark approved by the City Council in June 2010 assumes a parking demand of 12,450 to 13,929 spaces, the majority of which are east of highway 87. These parking facilities are in both public and private garages and surface lots, most of which have low usage during the evening hours and weekends when the majority of Major League Baseball games are played. The additional parking planned for the Diridon Station Area is not necessary to accommodate the increase in demand associated with the ballpark.

## TRANSIT PARKING DEMAND

The following paragraphs present a preliminary estimate of transit parking demand for the transit systems serving the Diridon Station. These estimates are based on projections developed by the respective transit agencies, and reflect long-term (i.e. in 30 years) characteristics of transit service at or near Diridon Station. It is important to emphasize that these are preliminary estimates and are subject to change, based on specific characteristics of future transit projects and evolving conditions that affect the overall parking demand in the Diridon Station area.

There are multiple transit agencies that have current or future interest in providing parking for their riders in the Diridon Station area. Diridon Station serves an increasingly dense station area and is uniquely well-connected to the regional transit systems, with connections ultimately being provided to serve High Speed Rail, BART, Caltrain, VTA bus and light rail, Capitol Corridor, ACE, Amtrak and other regional transit services. As such, the station is less appropriate to have a major park-and-ride function. Decreasing reliance on private vehicle for station access is desired and anticipated. At the same time, it is recognized that some supply of commuter parking is required to support continuing transit ridership growth as the station area evolves and as new services are added over time.

Estimates of transit parking demand have been developed based on the following principles:

- The station is classified as a Transit Center per Caltrain's station access policy, identified as "stations situated in urban or suburban downtown cores with high service levels, ridership, transit connectivity, and residential and employment densities."
- Park-and-Ride access mode share to the station will decrease over time, consistent with City of San José VMT reduction goals as well as the policies of the transit operations to prioritize alternative means of access.
- Mode share for transit transfers will increase over time as new transit services are initiated and service by existing operators is increased.

- Mode share for station access by walking will increase over time as significant amounts of new transit-oriented development are provided within the immediate station area.
- Overnight long term parking will not be provided immediately adjacent to the station. This demand will be served by existing and future parking facilities located within three miles of the station with shuttle buses or other modes of transit access.

Parking demand estimates were developed for the BART, Caltrain and High Speed Rail providers in the following subsections.

***BART, Caltrain and Other Conventional Rail Operators***

The BART and Caltrain station area parking demand estimates were developed from 2030 ridership and unconstrained parking demand forecasts provided by VTA (BART Silicon Valley) (15) and Caltrain. These unconstrained estimated were then adjusted to reflect a decrease in park-and-ride (PNR) mode share. Parking reduction scenarios were developed based on the mode shares at BART and Caltrain stations with comparable land uses and intensity of development. These stations are shown in Figure 2-8-2 below.

FIGURE 2-8-2: COMPARABLE STATIONS BY MODE SPLIT GOAL

<i>Comparable Stations (PNR mode split)</i>	<i>10%</i>	<i>15%</i>	<i>20-25%</i>
<i>BART</i>	<i>12th Street Oakland</i>	<i>Glen Park</i>	<i>Ashby</i>
<i>Caltrain</i>	<i>Burlingame</i>	<i>Palo Alto</i>	<i>San Mateo</i>

(15) SVRT EIS, Chapter 3, P3-31.

FIGURE 2-8-3:DIRIDON STATION TRANSIT ACCESS MODE SPLIT GOALS AND PARKING SPACES

	2030 Projection	10% PNR Mode Share Target	15% PNR Mode Share Target	20% PNR Mode Share Target
BART	2,585	260	390	520
Caltrain	2,281	600	900	1,200
Amtrak and Capitol Corridor	65	65	65	65
High Speed Rail*	3,800	428	428	428
Total		1,353	1,783	2,213

\*Refer to HSR discussion below

Based on discussions with VTA and Caltrain, it is believed that the mode split goals will be achievable, given the planned land use changes that will support a higher walking mode share and increased transit connections that will support higher transit transfer rates.

Parking demand was also estimated for Amtrak and Capitol Corridor services by using available station access mode share information and extrapolating to future ridership levels. Commuter parking for ACE is not anticipated at Diridon Station. The parking demand estimates are summarized in Figure 2-8-3.

### **High Speed Rail**

According to the High Speed Rail (HSR) Authority, there is a total demand for 3,800 spaces at Diridon Station (16) . Demand for commuter trips (daily parking) can be accommodated within the station area. Long term, overnight parking will be accommodated outside of an area within a one half mile radius of the Station, at remote parking locations within three miles of the station. Using passenger demand forecast information provided by HSR, it is estimated that 428 parking spaces will be required within the station area to serve commuter demand. Overnight, long distance trips will account for a large share of the parking demand. This is due to the fact that passengers taking longer distance trips will also have longer duration trips. For example, a commuter passenger driving to the station will occupy a parking space for one day, while a long

(16) California High Speed Rail Authority. *Parking Guidance Memo*. July 2010.

FIGURE 2-8-4: DIRIDON PARKING DEMAND SUMMARY

Total Parking Demand			
	Low	Med	High
Total Transit Parking Demand	1,353	1,783	2,213
Total Development Demand		9,127	
Total Estimated Parking Demand	10,480	10,910	11,340

distance, overnight trip passenger will occupy a parking space for multiple days. Commuter parking demand was estimated as follows:

- 31% of daily passengers are intra-regional (local) trips (16)
- 1,400 vehicles will be arriving to park daily (16)
- Commuter parking spaces = 31% of 1,400 vehicles = 428 parking spaces

Substantial additional work will be undertaken to confirm the feasibility of accommodating parking for overnight HSR customers outside the Diridon area and within a three mile radius. The analysis of potential locations will address the following points:

- Means to enforce this arrangement for overnight parking
- Identification of sites, with associated commitments, for accommodating this overnight parking.
- Establishment of shuttle arrangements for transporting these overnight patrons to and from the Diridon Station.
- Economic feasibility of these off-site parking and shuttle arrangements.

#### PARKING DEMAND SUMMARY

Figure 2-8-4 summarizes the total anticipated parking demand for the Diridon Station Area Plan.

### **ADDITIONAL COMMENTS ABOUT PARK-AND-RIDE PARKING DEMAND IN THE STATION AREA**

For a non-event day, regular parking occupancy at the lots in subarea H in the vicinity of the Diridon Station were observed to average 86 percent full at 5:00 PM. Occupancy in these lots subsequently dropped sharply to 26 percent full after commute hours between 5:00 and 9:00 PM. This phenomenon correlates with a similar reduction in overall parking demand around the station area for park-and-ride parking in the evening. Therefore, during typical commute days in the Diridon Station Area, observations indicate that the majority of parkers leave after 5:00 PM, freeing the off-street supply for other uses such as evening events at the San José Arena. Assuming typical patterns continue, 350 to 575 parkers (17) can be expected to remain in the Diridon Station Area after 5:00 PM, freeing up parking for other uses such as evening events.

### **PARKING SUPPLY LOCATIONS**

Parking supply locations are discussed in more detail in section 4.2 of this report.

*Minimum is based on a 10% mode split and maximum is based on a 20% mode split. Approximately 465 parkers would remain based on a 15% mode split.*

## 2.9 Infrastructure capacity and demand

As indicated in the existing conditions analysis, the existing utility infrastructure serving the Diridon Station Area is antiquated and undersized to meet the future buildout needs. The majority of the infrastructure systems will justify replacement to meet the increased demand, improved reliability, and distribution objectives.

### STORMWATER FACILITIES

Flood Plain considerations, Stormwater Conveyance upgrades, Hydrograph Modification implementation, River/Creek Outfall improvements, and Stormwater Quality Management compliance must be considered in implementing stormwater infrastructure.

### FLOOD PLAIN

The existing conditions report indicates low-lying areas in proximity to the river and creek are currently subject to flood inundation during extreme storm events. These areas will require improvements that either raise the properties above the existing flood levels or sufficiently lower the current flood level designations to remove them from the flood plain mapping and the requirements for flood insurance. It is unlikely that Santa Clara Valley Water District considered these areas for storm water storage when modeling the capacity of the rivers and creeks. Raising or “filling” the sites therefore should not negatively impact the overall storage capability of the areas storm water conveyance facilities. Any proposed mitigation will require a study through the flood control district coupled with a FEMA application and approval (Letter of Map Revision) for FEMA to modify the areas Flood Insurance Rate Map.

### STORMWATER CONVEYANCE

The stormwater conveyance lines that bisect and collect runoff from the planning area appear to have been sized to accommodate roughly a two year statistical storm event. With the City’s current

stormwater design policy requiring attenuation of the 'ten year storm event,' many of the gravity conveyance lines in the area will need to be upsized to meet current requirements.

### **HYDROGRAPH MODIFICATION**

Stormwater detention/retention may be needed at both the site specific project level and/or at the regional level within the Diridon Station Area Plan. Detaining/retaining stormwater would assist in attenuating the stormwater levels in the creek watershed so as not to inundate downstream properties. A study will need to demonstrate how the area plan will handle stormwater runoff.

### **RIVER/CREEK OUTFALLS**

The current system is collected and discharged directly to the Guadalupe River and Creek via multiple outfall structures located in the channel banks. An analysis of each individual outfall is needed to determine its condition and suitability for reuse. If new or replacement outfalls are needed, each will require permitting from the Army Corps of Engineers, the California Regional Water Quality Control Board, the California Department of Fish and Game, and multiple other local, regional, and federal agencies.

### **STORMWATER QUALITY MANAGEMENT**

The potential need for new outfall structures into the river and creek would likely require a US Army Corps of Engineers Permit(s) along with Regional Water Quality Control Board Water Quality Certification. Thus Diridon Station Area will likely need a Stormwater Management Plan to address stormwater quality issues. This plan should address the potential for treating stormwater runoff in vegetative treatment systems integral with the parks and open spaces. While each specific project within the area should develop their own stormwater quality plan to treat stormwater at the point source, the backbone infrastructure that supports the entire plan

may need regional areas to treat stormwater runoff from the streets and other public areas.

### WATER FACILITIES

Currently distribution lines within the area range from asbestos cement, cast iron, polyvinyl chloride and ductile iron pipes. Many of the distribution lines in the Planning Area are 6-inch in diameter. The land use, densities, and building heights associated with the Preferred Alternative will require replacement of the water distribution system within the area to meet both the domestic demand and the fire service demands for new building structures. Trunk water mains that feed the area may also need to be upsized to meet increased fire service demands.

### WATER DEMAND ANALYSIS

Based on the land use and associated consumption rates, the comparative water demand for Diridon Station Recommended Alternative is approximately 1.84 million gallons per day.

FIGURE 2-9-1: WATER USAGE

PREFERRED ALTERNATIVE:			WATER CONSUMPTION RATE		WATER DEMAND		WASTEWATER DEMAND <sup>1</sup>	
LAND USE	TOTAL	UNIT	RATE	UNIT	GPM	MGPD	GPM	MGPD
COMMERCIAL	4,963,400	SF	0.18	GPD/SF	620	0.89	558	0.80
RETAIL	424,100	SF	0.50	GPD/SF	147	0.21	133	0.19
RESIDENTIAL	2,588	UNITS	200	GPD/UNIT	288	0.41	259	0.37
HOTEL	900	ROOMS	175	GPD/UNIT	109	0.16	98	0.14
BALL PARK	32,000	SEATS	5	GPD/SEAT	111	0.16	100	0.14
<b>TOTAL</b>					<b>1,276</b>	<b>1.84</b>	<b>1,148</b>	<b>1.65</b>

1. SEWER GENERATION RATES ARE BASED ON 90% OF THE ESTIMATED DOMESTIC WATER CONSUMPTION

## WASTEWATER FACILITIES

As noted in the existing conditions report, siphons transfer wastewater from the area below the Guadalupe River and Los Gatos Creek. The Preferred Alternative will increase wastewater flow generation beyond the current condition. As the City of San José does not typically allow flow rates to increase through these siphons, an analysis to determine if the increased dry weather wastewater flows can be offset by decreased infiltration and inflow would be required. A decrease in flow would be expected through the replacement of older antiquated vitrified clay pipes with new polyvinylchloride or high density polyethylene pipes. The analysis is likely to show that pipe replacement alone will not mitigate all of the increased sewer loads and that some of the siphons may require replacement. The permitting for these replacement siphons would include multiple local, state and federal agencies, including the Santa Clara Valley Water District, the U.S. Army Corps of Engineers, the California Regional Water Quality Control Board and the California Department of Fish and Game.

Based on the land use and associated generation rates, the comparative wastewater generation for Diridon Station Specific Plan Preferred Alternative is approximately 1.65 million gallons per day assuming that wastewater generation is 90-percent of the domestic water consumption. Utilizing a plan area peaking factor of 2.5, yields a peak wastewater flow of 4.1 million gallons per day.

## 2.10 Affordable housing

In addition to market rate residential development, the need for affordable housing in the City of San José will continue to remain high over the next 30 years, as San Jose and Silicon Valley has one of the most consistently expensive housing markets in the country. Additionally, according to the 2007-14 San Francisco Bay Area Housing Needs Plan, “Santa Clara County is the most populous county in the Bay Area and will experience the greatest amount of growth. Santa Clara County is expected to grow by nearly 23 percent over the next 25 years.” The projected population growth will be driven in part through economic and job growth. However, the California Employment Development Department estimates that the majority of jobs created, at least over the next several years, will be primarily low-skilled, low-wage jobs, many of which will be in the retail and services sector. As a result there is a mismatch between the high-cost market-rate housing produced and the lower-wage jobs created.

As one of the most transit-connected stations in the United States, Diridon Station represents a place of significant development potential in San Jose. This potential can facilitate the City of San Jose’s goal of creating vibrant “urban villages” that can drive economic growth, facilitate environmental sustainability, build diverse and complete communities, and realize a 24/7 transit-oriented district. At the same time, this development potential may also lead to significant increases in land prices and property values. While this may create opportunities, it may also create challenges with the provision of affordable housing if it prices land out of reach for affordable housing developers or if it displaces existing lower-income residents from the community. These issues must be considered and mechanisms developed in order to facilitate affordable housing and complete communities as the City implements the Diridon Station Area Plan.

### NEED FOR AFFORDABLE HOUSING

In 2007, the Bay Area Local Initiatives Support Corporation [Bay Area LISC] published Housing Silicon Valley: A 20 Year Plan to End the

Affordable Housing Crisis, one of the most comprehensive studies conducted regarding affordable housing demand and production. The Study indicates that over 41,000 Santa Clara County households across all income levels experience severe housing needs, which is defined by paying over 50% of household incomes on housing. These households are termed “severely rent burdened.” Of these, 21,758 households are in San José. Additionally, a significant proportion of these rent-burdened households are single- (40% ) or two-person (25%) households. The most recent data from the US Census confirms that these conditions continue to hold true today: over 50% of renter households in San Jose experience a burden while over 40% of ownership households experience a burden (2013 American Community Survey).

The LISC Study also projects a need for 90,000 affordable homes in Santa Clara County through 2027, with the City of San José constituting a significant proportion of the need. The single largest need [76% or 68,700 units] are for extremely low-income [ELI], very low-income [VLI] and low-income [LI] households. According to the Study, 39% of the needed ELI and VLI units would require a studio apartment or one bedroom apartment.

As indicated in the City’s 5 Year Housing Investment Plan and its federal Consolidated Plan, the San José Housing Department has an income allocation policy that directs its resources to facilitate the production of housing opportunities for families and households across incomes. This includes very-low income households who earn up to \$53,000; low income households earning up to \$84,900; and moderate-income households earning up to \$126,600. (Income limits reflect a household size of four. The income limits increase or decrease depending on household size, and are annually adjusted as necessary).

## DIVERSE HOUSING NEEDS

The City of San José Envision 2040 General Plan projects household population growth by the year 2040 to increase across age groups

to nearly 1.5 million total San Jose residents up from just under 1 million currently, with growth primarily in the 20-34 and in the 65 and older age groups.

Those in the 20-34 population show greater preference for affordable housing options in urban areas near shopping and transit for access to workplaces. This population will likely favor living in close proximity to Diridon Station, downtown San José retail and cultural amenities, coffee shops, and jobs. National and local trends also indicate that this group of urban singles and households prefers smaller units with on-site amenities like gyms, community kitchens, computer rooms and laundry rooms. Additionally, recent reports show that businesses and employees increasingly prefer working in urban environments with big city amenities. A recent article in the Wall Street Journal [September 30, 2009] listed the top ten “Next Youth-Magnet Cities” with the City of San José as number 10. As a result, Diridon Station has the potential to be one of the preeminent work-live urban locations in California and in the country.

Additionally, as the population ages and the mobility of seniors decrease, there will be increased need for housing for seniors located in close proximity to amenities such as public transportation, retail, health care resources, and other services.

The increasing number of households with persons under the age of 34 and households with persons over the age of 65, along with special needs populations will all require a focus on affordable housing with specific unit types, amenities, adjacency to retail and services, proximity to public transportation, and architectural design to meet a wide range of needs. The City of San José General Plan and a recent Blue Ribbon Task Force on Homelessness, co-chaired by former Santa Clara County Supervisor Don Gage and City of San José Mayor Chuck Reed identified numerous strategies to accommodate the need for affordable housing. Locating both market-rate and affordable housing near transit is a primary recommendation.

## SPECIAL NEEDS HOUSING

Providing housing opportunities for the special needs population is also important at Diridon Station. In addition to seniors, other groups such as the physically disabled, persons with addictions, large households, mental illness, the homeless, and people with HIV/AIDS require a wide range of housing and service needs. The City of San José's federal Consolidated Plan identifies a total unmet need of 41,400 units for its special needs population. In particular, the special needs population requires affordable housing options located within easy access to non auto-oriented forms of transportation that allow them to reach essential medical and social services, as well as amenities for everyday life. The social services may be provided by residential developers themselves or contracted out to organizations that specialize in providing special needs services to tenants. Diridon's position as one of the most connected transit stations in the US makes it one of the prime areas in San José in which to create affordable housing opportunities for its special needs population.

## CERTIFIED HOUSING ELEMENT

State law requires that cities must include a residential component called the Housing Element in their General Plan. The Housing Element identifies policies and programs to facilitate the production of housing units in order to meet the cities' fair share of the region's housing needs. The City of San José's current Housing Element must plan for approximately 35,000 housing units for the 2007-2014 planning period, composed of 19,000 affordable units and 16,000 market rate units. The City is currently in the process of planning for its next Housing Element covering the 2014 -2022 period. While the City's current Housing Element emphasizes residential development in infill and transit-oriented locations, continuing implementation of State law governing greenhouse gas reduction (AB 32) and sustainable land use planning (SB 375) will help facilitate more urban, sustainable, mixed-use communities

where housing is located near transit infrastructure, employment, and other land uses in the future.

### EXISTING POPULATION IN THE PROJECT AREA

The existing population in the Diridon Station Planning area has unique characteristics relative to the rest of San José:

- Percentage of workers taking public transit, walking, biking or working at home is 16.3% compared to 8.6% citywide;
- Median Income for Tract 5003 is \$45,057 compared to \$70,243 citywide;
- Median gross rent for Tract 5003 = \$877 compared to \$1,123 citywide;
- Percent renters = 78% versus 42% citywide.

These characteristics indicate two particularly important features of the existing residential community at Diridon. First, the households at Diridon have lower incomes than San José as a whole. Second, these households take non-auto oriented forms of transit at twice the Citywide rate. This reflects the continued need to provide a wide variety of housing opportunities across all income levels at Diridon Station as housing close to transit helps to reduce overall costs while maximizing transit use. Additionally, this will help to create a more diverse community at Diridon Station. The Diridon Plan should continue to support these existing residents while accommodating a new residential population.

### EXISTING AFFORDABLE HOUSING IN THE PROJECT AREA

There are approximately 150 existing deed-restricted affordable dwelling units in the project area in developments partnering with the City of San José. These developments have 55 year affordability restrictions and are relatively new developments. However, to the degree that there may be market-rate units at relatively affordable levels, policy responses should be considered to address potential

displacement of existing households as a result of rising rents or property values due to the development of Diridon Station.

## THE FINAL PLAN FOR DIRIDON STATION

The Final Plan plans for up to 2,588 housing units in two major clusters between the east/west arterial streets of Park Avenue and San Carlos Street.

A third, smaller housing cluster is planned for the area between The Alameda and Julian Street west of the San José Arena. In order to meet the residential and placemaking goals of Diridon Station, it is important that the City works with both market rate and affordable housing developers to ensure that a wide range of housing types are provided in the Diridon Planning Area.

It should be noted that the total number of housing units in the Final Plan is based upon the assumption that the average dwelling unit will be between 900-1,000 square feet. This dwelling unit size is appropriate for urban, market rate apartments, but may be larger than necessary for affordable housing, particularly for studios and one-bedroom units for single persons or seniors. An urban studio or single-resident occupancy (SRO) unit may be closer to 450-500 square feet and a one-bedroom apartment may be around 650-700 square feet. The growing interest in urban living has led to an increase in micro-units," where each residential home may be even smaller. With these smaller affordable units (the City does not have a density bonus ordinance based on State policy, which has been a discussion point over the last few years and will be explored as an implementation tool), there is an opportunity to provide additional affordable dwelling units within the housing clusters illustrated in the Final Plan.

## INCORPORATING AFFORDABLE HOUSING

Consistent with the City of San Jose's citywide inclusionary housing policy, the City has a policy goal that a minimum of 15% of the

residential units in the DSAP be affordable to households of low- and moderate-income in order to create a diverse, accessible, and complete community at Diridon Station. Yet, while the need and demand for affordable housing remain high, the ability for jurisdictions to facilitate its provision has been significantly challenged. The primary source of funding for affordable housing – the low- and moderate-income housing fund – was eliminated through the dissolution of redevelopment agencies in California. Additionally, inclusionary housing policies in California and in San Jose have been subject to legal challenges, putting the efficacy of such policies in question. Currently, all rental developments are exempt from the City’s inclusionary housing requirements, while only for-sale housing in former redevelopment areas is currently subject to such requirements. However, inclusionary requirements for-sale developments are currently being challenged in court. Finally, both State and federal funding for affordable housing and community development activities have significantly declined in recent years.

As indicated, San Jose’s inclusionary housing programs, including its citywide inclusionary ordinance that requires 15% of residential units to be built as affordable homes once the ordinance becomes operational, is on hold (except for for-sale homes in former redevelopment areas) due to legal challenges. The distinct importance of inclusionary housing was its ability to add a locational component to the provision of affordable housing. This is especially important given the need and desire to locate housing opportunities in amenities-rich areas where land is typically much higher than in other locations. The location of affordable housing in transit-rich locations is especially important, as lower-income residents utilize public transportation at a higher rate than other households. Transit ridership has the effect of helping to reduce greenhouse gas emissions and reducing the total cost of housing and transportation for lower-income households. Additionally, housing opportunities allow lower-income households who might otherwise be forced to live farther away from work to live and

work in the same community, further reducing pollution and traffic congestions. Without inclusionary housing and its ability to help site affordable housing in the right places, the City must develop new mechanisms to facilitate such developments in Diridon Station. However, San Jose will continue to advance inclusionary housing as a tool through both legislative and legal venues.

Should San Jose be able to implement its inclusionary housing program in the future, affordable housing units created through the inclusionary ordinance can either be integrated directly into the same building as market-rate units for a mixed-income development that includes above-moderate income households; or the affordable units can be produced in “stand alone” developments without market rate units.

In the past, many market rate developers have paid “in-lieu” fees rather than building the affordable units. The City utilizes the in-lieu fees as an additional financing source for stand-alone (100%) affordable development through public/private partnerships with non-profit residential developers. These partnerships are especially important for creating household opportunities for those most in need, such as extremely low-income households and the special needs population, as this group is projected to increase. As a next implementation step, policies should be considered that would keep any in-lieu fees paid within the Diridon Planning Area within the Area in order to meet its affordable housing needs. The in-lieu fees may also be applied to immediately adjacent neighborhoods that connect into and directly support the Diridon Area Plan, such as The Alameda, Downtown, along Park Ave, and adjacent portions of West San Carlos. These areas should be within one-quarter mile of the Plan boundary, but no more than one-half mile away.

Another strategy for providing affordable housing may be to acquire and rehabilitate existing units in the Diridon Planning Area and apply long-term affordability requirements to them. This strategy has the benefit of furthering sustainability goals by

utilizing the existing housing stock rather than relying solely on new construction to provide housing opportunities. It also helps prevent displacement by providing the opportunity for existing residents to continue living in their community. This strategy may be especially appropriate if the Diridon Area Plan has existing buildings that fit the envisioned built environment of the Plan and that can be acquired and rehabilitated with long-term affordability provisions. While funding has declined for acquisition and rehabilitation programs, this remains a potential strategy for maintaining the affordability of existing housing units in Diridon Station.

The City of San Jose will continue its role as a public purpose lender in order to facilitate the provision of affordable housing through is through public-private partnerships between both non-profit and for-profit residential developers and the City. With the loss of redevelopment housing dollars and the significant decline in State and federal funding, the City has more recently turned to developer agreements to yield one-time payments to provide gap financing. Other important sources may include community development funds and tax credits. However, one of the City's goals is to develop a permanent source of funding for affordable housing to help replace the loss of redevelopment, which was the primary tool that facilitated the development of affordable housing opportunities, especially for those most in need such as extremely-low income households or the special needs population.

These public-private developments often involve funding applications seeking highly competitive funding sources such as low-income housing tax credits that rate a project development proposal on various criteria such as proximity to transit, services, and amenities. Many of these amenities must be in place or developed concurrently for a project proposal to be competitive and to receive maximum funding. In order to best facilitate affordable housing at Diridon Station, the City should proactively seek to develop the Diridon Area in a strategic manner that

integrates land uses and that realizes the mixed-use and complete community goals of the Plan. In this manner, there is a higher likelihood that the proper infrastructure and amenities would be in place or developed concurrently with the residential development, allowing the affordable housing proposals to be highly competitive when seeking important funding sources.

### ADDITIONAL FINANCING & IMPLEMENTATION TOOLS AND STRATEGIES

In addition to the efforts discussed above regarding inclusionary housing and a permanent source of housing funding, the City is in the process of developing a toolbox of financing and implementation mechanisms to realize its urban village goals set forth in its General Plan. It shall be the policy of this plan to achieve a rate of affordable housing production at 15% of the housing units built within the plan area. Strategies to ensure the production of affordable units in the plan area will be developed as part of implementation of this plan, and may include, but are not limited to, the following:

- Impact fees
- Development agreements
- Public benefits agreements
- Public-private partnerships
- Tax increment financing
- Assessment districts
- Planning tools such as density bonuses, overlay zones, or public benefits conferred through rezonings
- Private lending
- Seek grant funding
- Development of affordable housing on publicly owned land
- Use of proceeds from development of publicly owned land to fund affordable housing
- Phasing of market rate residential units contingent on

achievement of affordable housing targets

The City should also support and advance both State and federal legislation for housing and community development that will direct funding to San Jose in support of its Diridon Station and urban village goals.

In terms of overall strategy, an affordable housing implementation plan should be developed for the Diridon Station areas as a next step, in conjunction with the development of an overall city wide affordable housing strategy, to ensure that housing opportunities across income categories are provided within the Diridon Station Area. Because land is expensive near transit, and will become more so with the implementation of this Plan, high land values at Diridon Station could quickly price out developers seeking to meet affordable housing needs in the area, forcing them to locate in other parts of San José where land is less expensive but perhaps not as desirable for residential development. An implementation plan should include strategies that would make affordable residential development a reality. Such a plan might include financing and/or land acquisition strategies.

## 2.11 Public art

The artist team for this project have prepared a separate summary report for the public art component of the Station Area Plan, entitled "At the Crossroads: Diridon Station Area Art Master Plan".

This document articulates a vision for art at the heart of the experience of the urban realm, defining the character of the community and engaging the public in their daily comings and goings. It provides a framework for giving the area a distinctive character as a unique part of downtown focused on entertainment and multimodal transportation, creating connectivity throughout the region. An executive summary is included below.

### PUBLIC ART MASTER PLAN - EXECUTIVE SUMMARY

The City of San José Office of Cultural Affairs Public Art Program initiated the Diridon Station Area Art Master Plan in conjunction with the City's effort to develop a forward-thinking land use plan, capitalizing on the dramatic changes anticipated over the next decade. The addition of High Speed Rail station (HSR), BART and a potential Major League Ballpark create an opportunity for the City to stimulate new commercial and residential development that adds dynamism to the City life.

A public art initiative currently underway in the Diridon Station Area is the Climate Clock Project. It will be a landmark public artwork that serves to reinforce San José's commitment to a green economy, and the intersection of art and technology through unique partnerships only available in the Silicon Valley. The critical decision was made to locate the Climate Clock within the Diridon Station Planning Area recognizing the future significance of this location as a nexus of land-based public transit for Northern California with the greatest potential for considerable exposure of the Climate Clock, and thereby the greatest potential for realization of the Initiative's mission. Three finalist artist teams are

currently developing proposals for the project. Artist selection is anticipated to occur in 2012.

The Diridon Station Area is at a crossroads. The current Diridon Station spans the historic El Camino Real, also known as the California Mission Trail; which historically linked San Diego to San Francisco and on to Sonoma via the 21 missions. Later through state highways, the same route was charted from San Francisco, through San José to the southern U.S. border. With the arrival of the HSR, El Camino Real is recreated, and, San José and the Diridon Station Area stand at a 21st Century crossroads—that of the international network created by technology. The City wishes to capitalize on this opportunity and reinforce and escalate its iconic identity as a regional center serving as an international platform for technological innovation. Art in infrastructure and natural systems can support the goals of promoting environmental sustainability and urban livability, it can help shift the relationship between people and place.

### **ART APPROACH: AT THE CROSSROADS**

The Diridon Station Area Art Master Plan follows the land uses identified in the Land Use Plan, embracing a varied approach to art integration, responding to the concept of San José at the Crossroads. The San José Public Art Program will be the lead agency in implementing the public art program in the Diridon Station Area. It will work with the San José Redevelopment Agency and other public and private entities to achieve the vision of the Master Plan.

### **MISSION**

The mission of the Diridon Station Area Art Program is to identify San José as a diverse global center for innovation and change.

The Diridon Station Area Art Master Plan celebrates San José as a Crossroads:

- of engagement
- of innovation
- of ecology

This thematic approach creates a broad framework within which artists may work. It envisions art that takes many forms and may:

- use technology and/or comment upon it
- reveal natural systems or alternative energy use
- be celebratory, adding spectacle, whimsy, and a sense of play
- draw upon San José's rich ethnic mix
- be interactive, creating opportunities for cross-cultural communication and public engagement

### *Vision*

The long-term vision for the Diridon Station Area is to be a lively and engaging part of downtown defined by its dynamic and sustainable built and natural environments with a character that is manifest by art, architecture and an aesthetic approach to infrastructure that is integrated into its surroundings.

### *Framework*

The Diridon Station Area Art Master Plan envisions three different zones in the Diridon Station Area in which artwork is differentiated in aesthetic approach, influenced by the character of development and uses (Figure 2-11-1). This differentiation is not a hard distinction, however, and overlapping approaches are anticipated in some areas.

FIGURE 2-11-1: ART ZONE MASTER PLAN

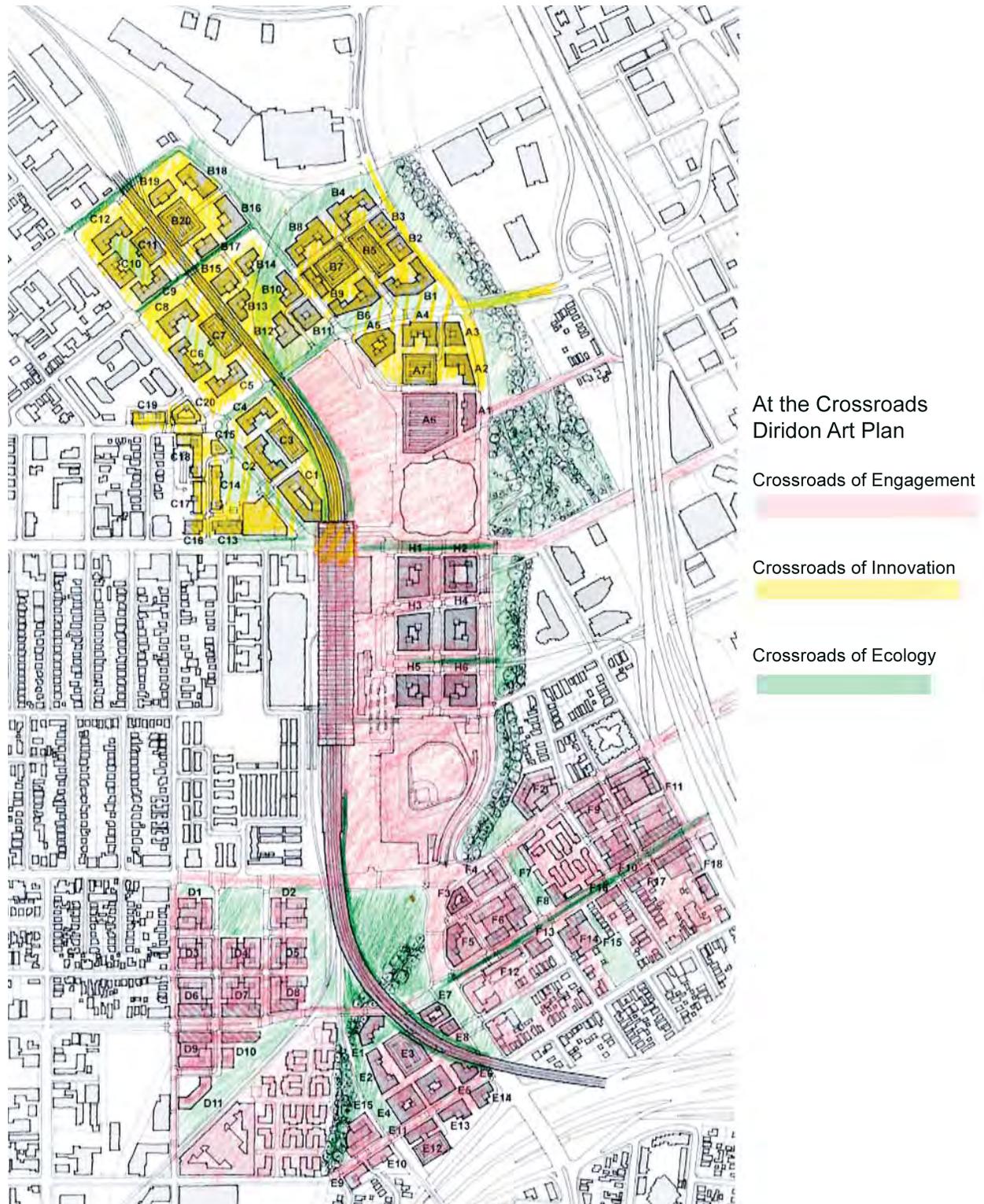


FIGURE 2-11-2: CROSSROADS OF ENGAGEMENT



The Crossroads of Engagement corresponds to the area described as “commerce and entertainment” in the Land Use Plan. The artwork here should invoke a sense of excitement and encourage interaction among people. The intention is that art creates a strong sense of civic identity. Artwork associated with the HSR and the ballpark should be dynamic and theatrical. Both the art and the architecture of the HSR multimodal station should be iconic in nature, reinforcing San José as a destination for technological innovation.

FIGURE 2-11-3: CROSSROADS OF INNOVATION



The Crossroads of Innovation defines the northern zone (Commercial/Office Hub) and corresponds to the “innovation” zone of the Land Use Plan. Since most of the development in this area will be commercial, public investment will be in the public right-of-way. As such, artists should be engaged in infrastructure projects to ensure that streets and underpasses create interesting and engaging experiences for pedestrians, bicyclists and drivers. Many businesses, however, may be interested in commissioning artworks for their buildings or open spaces.

FIGURE 2-11-2: CROSSROADS OF ECOLOGY



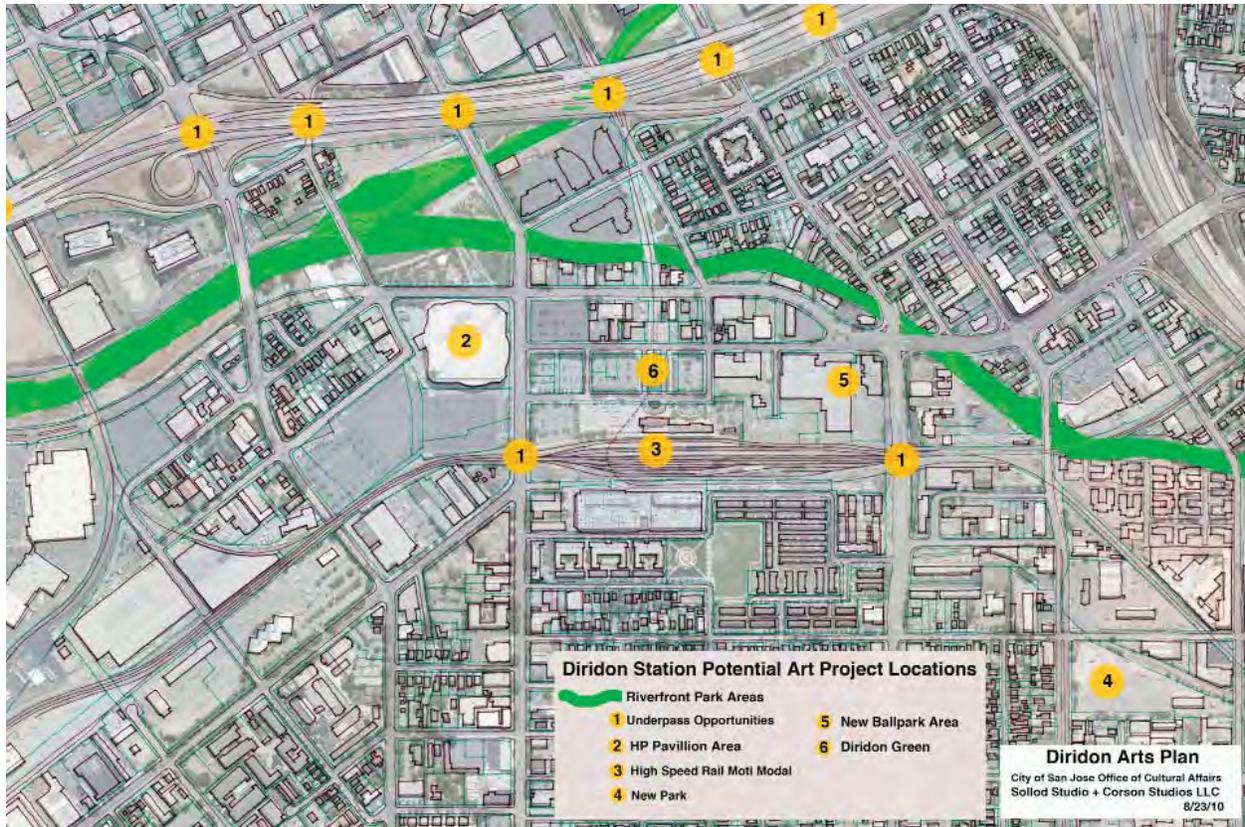
The Crossroads of Ecology is defined by the area’s parks and open spaces, the “green streets and fingers” designated in the Land Use Plan, and natural features that link the entire Diridon Station Area. This zone includes the residential areas south of the projected future ballpark, along with Los Gatos Creek and Trail, Guadalupe River Park, and the new park anticipated south of the station area. It also includes W. San Carlos Street from Lincoln to Vine. Park Avenue and W. Julian Street and the existing neighborhood, south of W. San Carlos Street. The type of artworks envisioned in this area would typically be of pedestrian scale and of a more intimate character. Los Gatos Creek and the new park lend themselves to artworks that are highly integrated into the environment.

In each of these zones, artists should be engaged as members of design teams to ensure that art is an integral and identifiable part of the experience of place. In addition to serving on design teams, individual artists will be commissioned to create specific works to enhance the public realm.

#### Summary of Key Recommendations

- Embrace the conceptual approach “at the crossroads—of engagement, of innovation, of ecology”—to guide artistic exploration in the Diridon Station Area.
- Prioritize the siting of the Climate Clock Project as early as possible in the build-out of the Diridon Station Area.
- Seize opportunities for artists to play a leadership role in creating dynamic places.
- Use strategic partnerships to increase resources for art acquisition and programming
- Engage the private sector in commissioning and presenting public art. Consider maintenance requirements for artworks when allocating resources for commissioning.
- Encourage inclusion of basic public utility infrastructure of power, water and data capability in public spaces to create a platform for a wide variety of art.

FIGURE 2-11-5: POTENTIAL ART PROJECT LOCATIONS



## CONCLUSION

Art in the Diridon Station Area will help forge a new dynamic neighborhood for San José, defining and infusing the area with vital “essence and identity” while fostering the spirit of innovation and environmental stewardship. The artwork will make this a landmark destination that reinforces San José’s identity as a center for innovation. Artists working as visionaries and collaborators will apply their talents helping to sculpt and define the public realm, inspiring us and helping us dream.

### 3. FINAL PLAN DESIGN GUIDELINES

## 3.2 Built form

### GUIDELINES FOR SITE PLANNING

Pedestrian activity and bike access is key to the development of the Diridon Station Area as a vibrant urban destination that takes advantage of the proximity to one of the most important transit hubs of the Western United States, the San José Arena, and future ballpark, as well as San José's downtown with its convention center and university campus. While the street system in the station area needs to accommodate all transportation modes in a well-balanced manner, particularly in the immediate surroundings of the station, pedestrian activity helps generate higher rates of transit ridership by encouraging the use of alternative transportation options. High levels of pedestrian activity can be achieved by good overall connectivity and an interesting and varying street environment. Wide sidewalks, safe crossings, slow traffic, street trees, street furniture, and mid-block connections all contribute to a walkable and bikable environment. Built form and uses; however, are especially important for creating a pedestrian-oriented physical environment. Attributes include: high-density, a mix of uses, small blocks, active ground floor uses, broken-up building masses and articulated façades at the ground level that respond to the pedestrian scale, as well as small integrated plazas and seating areas. ~~The guidelines for built form are intended to provide general direction for future development in accordance with the overall goals for the Diridon Station Area; further refinement and detailing of the guidelines are necessary in later stages of the planning process.~~

#### BLOCK SIZE

~~Small block sizes are desirable for increasing pedestrian activity, improving overall connectivity, and creating an urban environment that is dense, diverse, vibrant, and active most hours of the day. Walkability decreases with the increase of block size, and block dimensions larger than 400 feet are typically not conducive to a pedestrian friendly environment.~~



*The station and the station area will be the place where the city welcomes visitor, employees and residents alike.*



*Diridon Station will become one of the major transit hubs in the region.*

Sections that are red crossed in "Section 3.2 Built Form" are removed from this document by a General Plan amendment approved by City Council in April 2019 and updated by San Jose Downtown Design Guidelines and Standards approved by City Council in April 2019.



*To attract pedestrian activity, the block sizes need to be small and the ground floor level of buildings should respond to the pedestrian scale.*

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FIGURE 3-2-1: BUILDING HEIGHTS



~~**Central Zone – Destination Diridon**~~

- ~~• The maximum block size, with exception of the ballpark block and the station, should not exceed 250 feet on either side to provide a high level of flexibility for different uses and site layout needs while encouraging walkability.~~

~~**Northern Zone – Innovation District**~~

- ~~• The maximum block size should not exceed 350 feet on either side to provide a high level of flexibility for different commercial and office uses while encouraging walkability.~~

~~**Southern Zone – Diridon Neighborhoods**~~

- ~~• In residential areas, blocks should have lengths ranging from 150 to 300 feet, defined by a street or public pedestrian pathway.~~

~~This guideline does not apply to portions of the site where connections cannot be made because of physical obstacles such as existing buildings, water bodies and wetlands, railroad and utility rights of way, limited access roads, parks and dedicated open space, and difficult topography.~~

**BUILDING HEIGHTS**

Establishment of maximum building heights is essential to ensuring that new development is integrated and compatible with the surrounding neighborhoods and with key City assets, including the San José Arena and the Guadalupe Gardens River Park. To this end, Guidelines are provided on the maximum height of buildings in the Diridon Station Area. These guidelines are consistent with the Federal Aviation Administration’s (FAA) Part 77 Airport Approach Zone height limits and with the Santa Clara County Airport Land Use Commission’s (ALUC) Comprehensive Land Use Plan (CLUP). The urban design height guidelines for each subarea in the Diridon Station Area Plan are discussed below and are shown on Figure 3-2-1. Limited intrusions of 10 feet above the heights shown in Figure 3-2-1 would be allowed for elevator shafts, rooftop equipment, architectural treatments to parapets, roof lines and the like. In no case shall the intrusions of 10 feet exceed the FAA Part 77 Surface heights.

***Central Zone – Destination Diridon***

The maximum building height in the Central Zone is 130', which is the height limit of the tallest portion of the San José Arena. Recognizing the importance of the San José Arena and its primary user, the San José Sharks, to the identity of the City of San José, the goal of this guideline is to ensure that new development in the Central Zone does not exceed the height limit of the San José Arena, thereby maintaining the visual prominence of this facility in the Diridon Station Area. The height limits are also intended to limit shadows on a potential central plaza and other public open spaces within the Central Area, spaces that are intended to be vibrant and active with pedestrian traffic and frequently used for public events.

***The Northern Zone – Innovation District***

The urban design height guidelines in the Northern Zone, west of the existing Union Pacific and Caltrain rail line, are intended to ensure the compatibility of new development with the existing residential neighborhood to the west and with the historic character and scale of The Alameda; however, the height limits for the areas designated Transit Employment Center on the east side of Stockton Avenue increase as one moves away from the established residential neighborhood and approaches the Diridon Station, reflecting the goal to place more intense development away from these neighborhoods but close the Diridon Station.

The height guidelines on the Northern Zone east of the Union Pacific and Caltrain railroad tracks are intended to reflect the historical pattern and scale of industrial development in this area and to ensure that new development minimizes shadow along the Guadalupe Gardens River Park and Trail to the east. Allowable heights increase moving south towards the SAP Pavilion, consistent with FAA height restrictions.

***Southern Zone – Diridon Neighborhoods***



*Street parking creates a buffer between pedestrians and traffic, and slows traffic down.*

The building height guidelines in the Southern Zone are intended to ensure the compatibility of new development with the surrounding relatively low density residential neighborhoods. The building height guidelines in this Zone, east of Autumn Parkway, reflect, and are consistent with the height guidelines in the Delmas Park Strong Neighborhoods Initiative (SNI), Neighborhood Improvement Plan. The height guidelines both in this Plan and the Delmas Park SNI Plan discourage taller buildings adjacent to areas with existing single-family homes, including the Lakehouse Historic District centered around Lakehouse Avenue; however, taller buildings are encouraged in portions of the Delmas Park SNI area that are along major roadways and set back from the established single-family areas.

The areas designated Urban Residential along the east side of Sunol Street and on both sides of Auzerais Avenue, east of Los Gatos Creek, have a height limit of 65' to ensure compatibility of new residential development with the adjacent single-family neighborhoods. The height limits in these two residentially designated areas are intended to provide transition zones between the adjacent predominately one-story homes and the residential or commercial development to the east that could potentially be built to heights of between 110' and 130', depending on location.

### **SITE ACCESS AND CIRCULATION**

~~Circulation on each site should be connected to the public street network and provide clear and direct connections for pedestrians and bicyclists. Vehicular movement across sidewalks (curb cuts) should be minimized by locating driveways, parking courts, and parking garage entrances on the side or back of a building, or on streets with less pedestrian traffic, thus enhancing the pedestrian environment and minimizing potential conflicts between pedestrians, bicyclists, and vehicles.~~

- ~~• Connect streets and pathways to the larger public street network and to the open space system;~~

- ~~Include on-street parking;~~
- ~~Dead-end streets and cul-de-sacs are not allowed except if used for service or emergency access only;~~
- ~~Lay out streets as a logical extension of the public street grid;~~
- ~~Discourage curved or weaving streets;~~
- ~~Curb cuts should be minimized;~~
- ~~Where feasible, encourage shared and consolidated site access and use new streets or driveways that resemble publicly accessible streets;~~
- ~~Locate vehicular circulation including parking, service, and loading zones, on the side, the rear, or inside of a building, away from the main building front;~~
- ~~Conceal vehicular entrances by integrating them into the building façade;~~
- ~~Provide as many pedestrian and bicycle access points from public streets as possible. Pedestrian and bicyclists should be able to directly access the building from the street at each building entrance;~~
- ~~In larger campus settings, create a network of pedestrian and bike paths that connects to public streets and public green spaces;~~
- ~~Create straight pedestrian paths that respond to real pedestrian needs rather than meandering paths that serve as decorative landscape features.~~

**MID-BLOCK CONNECTIONS**

~~Small pedestrian paths provide shortcuts for pedestrians and bicyclists, increasing visibility and accessibility between different areas within the Diridon Station Area and thus increasing activity levels as well. On private sites, pedestrian paths that are separated and protected from vehicular traffic and parking can offer relief from an auto-oriented landscape. Furthermore, by connecting employees, visitors, and residents to open space, they can become~~



*Provide mid-block pathways that connect to the larger pedestrian network and amenities such as plazas and parks.*



*Mid-block connections can serve as public open spaces and can be lined with active ground floor uses.*



*Buildings should form continuous street edges with active ground floor uses.*



*Building entrances should be clearly articulated and easy to find. They can include small plazas and seating areas.*



*Buildings can be oriented perpendicular to the street to frame open spaces.*

~~a shared asset enjoyed by all.~~

- ~~• Encourage publicly accessible pedestrian paths through larger, single use developments such as office campuses or residential complexes to provide a walkable and bikable environment for residents, employees, and visitors. Access may in some cases be limited to residents and visitors but the pathways should provide convenient direct access from the site to transit and amenities;~~
- ~~• Align internal paths with pathways and mid block connections on adjacent sites to allow for movement through multiple blocks;~~
- ~~• Ensure that access points to mid block connections are visible from public and publicly accessible streets;~~
- ~~• Cross site connections should be planned as shared bicycle and pedestrian paths;~~
- ~~• The width of mid block connections should range between 20 and 40 feet~~
- ~~• A designated pedestrian path should have a minimum width of 10 feet;~~
- ~~• Front building entrances and active ground floor uses on mid block pathways where feasible;~~
- ~~• Variations in materials, street furniture and tree and plant species are encouraged if they add to the character and quality of the streetscape;~~
- ~~• Use high quality and sustainable materials for pavement, street furniture, lights, and fences;~~
- ~~• Develop creative solutions to address security where needed while maintaining walkability; for example, provide public access during daytime hours only or limit access to tenants and residents;~~
- ~~• Mid block connections should be at grade. If a grade changes are necessary, for example on top of a parking podium, the changes should not be greater than four feet to~~

ensure the visibility and accessibility of the path;

- Include pedestrian-scale public art in mid-block connections through incorporation into amenities, building enhancements, and wayfinding, and through standalone artworks. Pedestrian thoroughfares provide important opportunities for narrative or sequential engagement.

### **BUILDING FORM AND BUILDING SITING**

The Diridon Station Area will become an extension of downtown to the west and serve as a City and region-wide urban destination with its major transit hub and vibrant mix of entertainment, employment, residential, and recreational uses. Where buildings are placed on the site ("siting") and oriented to the street stress the importance of the public realm and create a continuous urban experience. Vehicular circulation and parking should become an integral but not dominant part in the urban environment, particularly in the core area that will have its emphasis on transit and pedestrian activity.

#### ***Central Zone – Destination Diridon***

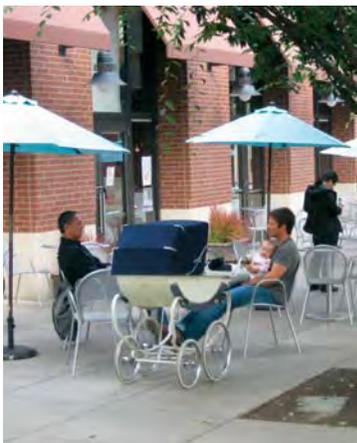
- Buildings must be oriented parallel to existing streets and along the edges of a site without setbacks from the property line. For more information, refer to 'Street Frontages';
- Blocks must have continuous frontages on all four sides to create a typical urban block;
- A perpendicular orientation should only be considered for taller portions of a building;
- Higher portions of a building should be oriented to major streets, i.e. Santa Clara Street, Autumn Street, and Cahill Street, and to the main plaza;
- Main entries should be easily identifiable and accessed from public streets;
- Walls along the street should not be blank; walls should vary in architectural detail and facade treatments to provide



*Ground floor residential or small office uses should be elevated and set back from the street or path to provide a transition between the public and private realm.*



Sidewalk widths should be generous enough to accommodate a curb zone with trees, a circulation zone, and a ground-floor related zone that can be used for seating, displays or bike parking.



Seating areas of different kinds invite people to stay and relax.

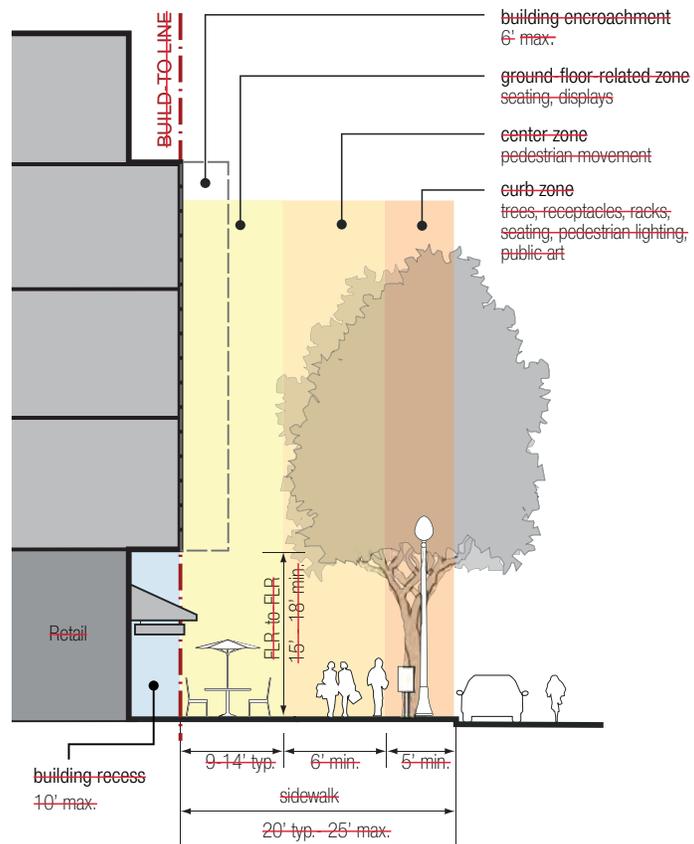
texture and interest to the pedestrian environment;

- Maximize a building's active spaces along its public street perimeter, particularly on the building sides facing Cahill Street and Montgomery Street, which can become the area's new retail street.

**Northern Zone - Innovation District**

- Buildings should be oriented parallel to streets or public spaces, and along the edges of a site to create a tight urban fabric;
- A perpendicular orientation should only be considered for taller buildings, or if the buildings form a street-accessible park or plaza;

FIGURE 3-2-2: TYP. SIDEWALK ZONE IN THE CENTRAL DISTRICT



Dimensions are approximate.

- If taller buildings are oriented perpendicular to the street, a shorter building portion should be placed parallel to the street to form a continuous street wall;
- Avoid placing buildings at an angle to the street or with large convex forms facing the street;
- Maximize a building's active spaces along its public street perimeter by locating retail, office, or commercial uses with customer activity on the ground floor level;
- Encourage secondary entrances for buildings that face onto a secondary street, pathway, or public street;
- Walls along the street should not be blank; walls should vary in architectural detail and facade treatments to provide texture and interest to the pedestrian environment;
- Vary dimensions, height and design to avoid monolithic feel and to add variety and texture;
- Encourage innovative office building forms such as narrow floor plates and/or atrium buildings to maximize day lighting, natural ventilation, energy conservation; and visual interest.



Articulated building corners and recesses add interest to the façade and provide space for seating.



The first two floors should respond to the pedestrian scale with clear glazing, columns, awnings, recesses, and signage.

### Southern Zone - Diridon Neighborhoods

- Residential units at grade and facing a street should have an elevated ground floor level unless the building includes active ground floor uses;
- Minimize the visual impact of service areas and garage entrances by locating them behind buildings and away from public streets and pathways. Provide screening through landscaping, fences and canopies;
- Utilize shared parking strategies whenever possible;
- Buildings facing trails can have trail-accessible entrances or backyards provided that the minimum setback zone is landscaped.



Office buildings in the Innovation District should have no or minimal setbacks from the street but can have plazas or courtyards facing the street or public paths.

## STREET FRONTAGES

The creation of a continuous public realm is essential to the development of the Diridon Station Area as a destination that



*Prominent design of ground floor retail contributes to high visibility and increases activity on the street.*



*Ground floor retail should have no setbacks to the street and wrap around the building corner.*



*Design entrances with small front plazas, seating areas or public art.*

attracts transit users, visitors, employees, and residents alike. Along with building placement and orientation, consistency in the zone between the building and the street, which can range from public, semi-public, and private in its use, is important to shaping this realm. Building elements that respond to the pedestrian scale and provide transitions between public and private zones encourage pedestrian activity by creating an interesting and varying environment. Active ground level uses and sidewalks buffered from vehicular traffic with planting strips, parking spots, and trees all contribute to a pedestrian-friendly streetscape; so do articulated entry areas, glazed façades, seating areas, small plazas, stoops, and awnings along building fronts.

Buildings should be placed parallel to the street. Vehicular access should be located on side streets to reduce curb cuts. Small parking lots for visitors may be located between the street and building entrance but large surface parking areas should be located behind the building or along the sides.

### **Central Zone – Destination Diridon**

- The sidewalk in retail areas should be at least 20 feet wide be designed to include three different zones, as follows:
  - The zone closest to the building, typically 9-14 feet wide, can be used for ground-floor related activities such as café seating, displays, and entry areas;
  - The center zone, at least 6 feet wide, is for free pedestrian movement;
  - The curb zone, at least 5 feet wide, should accommodate street trees, lighting, and street furniture such as trash receptacles, benches, and bike racks.
- Montgomery Street, the designated retail street connecting the San José Arena to the north with the Ballpark in the south, can be designed with 20-foot wide sidewalks as

~~described above or alternatively, as a shared street with continuous pavement and bollards instead of curbs, effectively creating a pedestrian zone during street closures for events;~~

- ~~All buildings should be built to the street edge to form a continuous, urban block without setbacks from the sidewalk;~~
- ~~Building entrances should be visually prominent and front onto public streets;~~
- ~~Building recesses of up to 10 feet from the main building façade are encouraged to add interest to the building's street frontage, particularly on the ground floor. Encroachments into setback areas should also be encouraged as permitted by applicable development regulations;~~
- ~~The first two floors of a building should include facade treatments such as clear glazing, display windows, columns, recesses, awnings, arcades, or seating areas that respond to the pedestrian scale;~~
- ~~Ground floor retail should have a minimum 18 feet floor-to-floor height;~~
- ~~Ground floor retail should wrap around the corners of buildings for at least 15 feet;~~
- ~~The build-to-line for residential buildings is 15 feet from the street-facing property line.~~
- ~~Walls should not be blank; walls should vary in architectural detail and facade treatments to provide texture and interest to the pedestrian environment~~

#### ~~**Northern Zone – Innovation District**~~

- ~~Buildings should be placed parallel to the street; surface parking areas, if permitted, should be located behind or on the side of a building;~~
- ~~Place buildings with more customer interaction such as offices along the street edge; place larger buildings with less customer interaction such as production facilities behind these buildings;~~



~~In the Innovation District, encourage larger retailers such as bookstores and supermarkets to be integrated in mixed-use buildings to create a dense, urban neighborhood.~~



*Integrate garage entrances in the building façade and minimize curb cuts.*



*Above-ground parking garages fronting on a street or public pathway should have ground-floor uses such as retail or office space.*

- ~~Build buildings to the edges of public streets with no or minimal setbacks except for entrance areas and small plazas facing the street;~~
- ~~Provide frequent entrances into buildings and active ground-floor uses;~~
- ~~Main entries should be visually prominent and must be oriented to a public street; secondary entrances along secondary pathways or driveways are encouraged;~~
- ~~Double height and transparent entry lobbies are encouraged for office and mixed-use buildings;~~
- ~~Ground floor retail should have a minimum 18-foot floor-to-floor height;~~
- ~~Ground floor retail should wrap around the corners of buildings for at least 15 feet;~~
- ~~Building recesses and encroachments are allowed as follows:~~
  - ~~Building recesses of up to 10 feet and encroachments of up to 6 feet are allowed from the main façade line to increase building articulation;~~
  - ~~Altogether, recesses and encroachments (measured by length) should not exceed 50% of the portion of the building's street-oriented façade that meets the main façade line;~~
  - ~~Occasional recesses on the ground floor for entrances, lobbies, and service retail are encouraged;~~
  - ~~Encroachments may occur only at a height of 15 feet or more from the street level.~~

**~~Southern Zone – Diridon Neighborhoods~~**

- ~~Residential buildings should be set back up to 15 feet from the street-facing property line to allow for a transition zone between the public and private realm;~~
- ~~Residential buildings that include ground floor retail should not have setbacks from the street-facing property line for the retail portion of the building; occasional recesses up to 10~~

~~feet are allowed;~~

- ~~Ground floor retail should have a minimum 18 feet floor to floor height;~~
- ~~Building encroachments and recesses are allowed as follows:~~
  - ~~Ground floor building element encroachments and recesses of up to 10 feet, for projections such as stoops, porches, patios, and seating areas are allowed~~
  - ~~Stoops or front yards are required along streets with street parking;~~
  - ~~Above the ground floor, building recesses of up to 6 feet and building encroachments of up to 4 feet are allowed from the main façade line for balconies, patios, and other elements;~~
  - ~~Altogether, recesses and encroachments (measured by length) should not exceed 50% of the portion of the building's street oriented façade that meets the build to line.~~
- ~~Vary building dimensions, height and signage to avoid monolithic feel and to add variety and texture~~
- ~~When possible, there should be no blank walls at the street level of buildings~~

## MIX OF USES

A mix of uses on sites and within buildings encourages walking due to a variety of activities that span over more hours during a day. By bringing important destinations close together, a mix of uses also increases convenience for pedestrians, particularly when such sites are co-located with or near their home or office. When people can complete several functions at one location, they can reduce overall trips, and therefore reduce congestion and pollution. The Diridon Station Area includes three distinct districts that differ in their predominant use but are in close proximity to each other. Integrating vertical mixed-use in each district, primarily by adding ground floor retail, will significantly contribute to pedestrian



~~Exposed parking garages should have layered façades by using building elements such as screens, panels, vegetation, glass, or photovoltaics.~~



Parking structure façades are suitable for integrating public art and lights.

activity and reduced motorized trips.

**Central Zone - Destination Diridon**

- Include ground floor retail in all blocks;
- Focus larger retail uses on Montgomery Street and include smaller retail along other edges, particularly on blocks facing the station and Santa Clara Street;
- Plan for a variety of office, hotel, and retail typologies.

**Northern Zone - Innovation District**

- Ground floor retail should be integrated in mixed-use buildings that take advantage of maximum heights and densities.

**Southern Zone - Diridon Neighborhoods**

- Residential buildings are encouraged to include ground floor retail or other commercial uses where appropriate;
- Residential buildings with designated retail frontages (refer to the Land Use Plan in Chapter 2.1) must include continuous ground floor retail space.

**PARKING STRUCTURES**

~~The Diridon Station Area will be one of the largest statewide intermodal transit hubs that connects a great variety of transit modes within the city and the region. To make transit, biking, and walking successful the use of the private car needs to be significantly reduced throughout the area. In addition to providing incentives to use alternate modes through priority access and proximity to destinations and activities, the availability and visibility of car parking spaces have an important impact on transportation choices (also refer to Chapter 2.7 for parking supply and demand management). While cars still need to be accommodated in the area, they should not be the dominating element in the streetscape. On street parking spaces, if designed well, can actually enhance the pedestrian environment by creating a buffer and slowing traffic down; large surface parking areas, however, lack activity and create a hostile environment for pedestrians. Due to the Station Area's urban character, large surface parking lots are~~

generally discouraged and parking should be accommodated in above-ground or underground parking structures. Above-ground parking structures can be integrated into pedestrian-oriented environments by screening them through creative architectural design and landscaping, wrapping them with habitable spaces, placing them towards the center of blocks or underground, and utilizing them as sites for public art.

**General Guidelines**

- Wherever feasible, provide underground parking garages with access located away from public streets or integrated in the building façade;
- Enhance above-ground garages with habitable uses on the ground floor, multi-layered architectural façades, or landscaping on any side that is visible from streets, driveways, or paths;
- Ground floor retail should have a minimum of 18-foot floor-to-floor height and a minimum depth of 45 feet. Deeper and taller dimensions such as 60-foot depths or 18-foot clear ceiling heights are encouraged;
- Leased spaces on the ground floor of a parking structure, which are not on a primary street should be at least 30 feet deep and are anticipated to be service or office space rather than primary retail space;
- Prevent any directional artificial light emission by appropriate screening measures;
- Locate garage entrances away from public streets or on streets with less activity;
- To minimize the heat island effect and water run-off, consider the use of the top of underground or podium garages for landscaping, green roofs, energy generating systems, or other uses;
- Consider the use of automated parking systems or lifts to minimize space and increase efficiency;
- Provide designated motorcycle and bicycle parking spaces



The use of pervious materials in surface parking areas increase water infiltration and decrease the heat island effect. Different pavement for street parking also visually narrows the street.



Plant a generous amount of trees in surface lots to provide shading.



Provide planting strips in and around the perimeter of surface lots to increase water infiltration and add visual interest.



Street trees or planting strips between parking spaces contribute to a pedestrian-friendly environment.



Provide generous bulb-outs for street trees and pay attention to detailing for curbs, drainage, and pavement.



Attractive bike and pedestrian paths make it easier for people to get out of their cars.

~~closest to building entrances and street edges;~~

- ~~• Locate designated stalls for car share, carpool, or low-emission cars closest to building entrances;~~
- ~~• Encourage the incorporation of public art in parking structures, particularly into building façades and wayfinding systems.~~
- ~~• New large commercial parking garages should accommodate large event parking and consider design features to facilitate efficient ingress and egress for such events.~~

#### ~~Central Zone – Destination Diridon~~

- ~~• Above-ground parking structures should be enclosed with buildings on all four sides;~~
- ~~• Parking structures should not front onto public streets unless fully wrapped with active uses or retail;~~
- ~~• Integrate parking and loading entrances into the building façade and locate them on streets with fewer active ground floor uses;~~
- ~~• Loading areas must be located inside of parking garages or buildings and be invisible from the street.~~
- ~~• Utilize shared parking whenever possible~~

#### ~~Northern Zone – Innovation District~~

- ~~• Podium garages should be enclosed with buildings on at least three sides; if freestanding garages are the only feasible option, they must be located at the center of the site and surrounded by buildings or structures that hide it from direct street views, or along inaccessible areas such as railway tracks or back sides of large industrial or commercial buildings;~~
- ~~• If a garage or portions of a garage must front onto a street due to site constraints, it should be fully wrapped with office or retail uses;~~
- ~~• Minimize access to parking areas from primary public streets by locating parking entrances on secondary streets and by consolidating driveways or garage entrances;~~
- ~~• Provide a high-quality, multi-layered architectural façade on any side of a parking structure that is visible from a street, driveway,~~

or path.

**~~Southern Zone – Diridon Neighborhoods~~**

- ~~Structured parking that fronts onto streets, open spaces, or pathways should be wrapped with habitable space whenever possible;~~
- ~~If not wrapped with habitable space, then at least 50% of the structured parking should be below grade, and the above-grade portion should be screened with architectural elements and/or vegetation;~~
- ~~Any exposed parking structure façade that faces neighboring residential development should be screened with architectural elements and/or vegetation;~~
- ~~Ensure that no artificial light is emitted at night from any above-ground portions of a parking structure that fronts onto a street.~~

**SURFACE PARKING**

~~The provision of large surface parking lots would undermine the creation of the vibrant, urban place envisioned for the Diridon Station Area, aside from the negative environmental impacts such as heat islands, increased storm water run off, and the promoting of driving. Large surface parking lots are generally discouraged in the plan area. Two exceptions to this goal are: a) San José Arena lots, A,B, and C are anticipated to remain in the future; b) Other existing parking lots serving San José Arena patrons are anticipated to remain on an interim basis. If small surface parking are needed for handicap or short term parking, the negative impacts of surface parking can be reduced by planting trees throughout lots, placing lots in shaded areas of the site, providing shade structures, using permeable paving, and giving bicycles, motorcycles, and car share and carpool spaces priority over regular car parking since these use the land more efficiently. Small surface parking areas are only allowed in the Innovation District and the Diridon Neighborhoods.~~

- ~~Surface parking areas should not exceed a length of 120 feet on each side;~~



*Bike parking should be integrated in the streetscape and easily accessible like these “parklets”.*



*Stand-alone bike parking and repair facilities can include other uses such as car share or a café.*



*Green roofs improve water retention and indoor climate, and make the roofscape visually attractive.*



~~Consider the integration of rain water collection systems such as bioswales and fills into the streetscape.~~



~~Shading devices that are integrated in the façade significantly reduce energy consumption.~~

- ~~• Consider locating surface parking lots along the side and/or rear of buildings, away from street edges; provide screening with appropriate landscaping along the perimeter.~~
- ~~• Provide a generous amount of designated motorcycle and sheltered bicycle parking stalls; place these stalls closest to building entrances and street edges;~~
- ~~• Include stalls for car share and carpool vehicles, and stalls specifically designed for small and compact cars; locate these stalls in preferential locations closest to building entrances;~~
- ~~• Use water permeable pavers or pavement to reduce storm water runoff. Permeable pavement can also be used for parallel parking along private streets;~~
- ~~• Provide shading through tree or solar panel canopies to reduce the heat island effect;~~
- ~~• Encourage shared driveways or alleyways for parking access in order to reduce curb cuts and potential pedestrian/vehicle conflicts.~~

## STREET PARKING

Street parking helps create a buffer between the sidewalk and traffic, reduces traffic speeds, and provides short-term vehicular access to the area. Generally streets should include parallel street parking except in drop-off, taxi, and bus stop zones.

- Use minimum dimensions for parking stalls to increase the number of parking spaces and to reduce the overall street width;
- Encourage the use of non-asphalt pavement for parking strips, preferably water-permeable pavers to reduce storm water runoff;
- Encourage the integration of generous bulb-outs for trees in between parking spaces; trees should preferably be planted at intervals of at least four parking spaces;
- Provide designated motorcycle spaces, preferably at intersections to increase visibility and safety for pedestrians;

- Encourage the integration of bicycle parking spaces on the parking strip (“parklets”) to maximize sidewalk space;
- Private streets should be planned and designed to be similar to public streets including parallel parking on both sides of the street where feasible.

### **BICYCLE PARKING AND FACILITIES**

Increased usage of alternative transportation modes such as bicycling is key to reducing reliance on the automobile. People will start bicycling more when bike usage is encouraged and supported along every step of the way, making the bicycling experience smooth, seamless, and as easy as, if not easier than, driving a car. Bike trails and routes are one part of the equation; another part is secure bicycle parking facilities, particularly at home and at work, but also at parks, retail areas, and anywhere else automobile parking is already provided. Providing accessible, secure, and protected bicycle parking is a crucial step towards making bicycling a viable transportation option.

- Provide adequate and easy access to bicycle parking in buildings, in open spaces, and along streets and shared pathways;
- Ensure that bicycle parking facilities are visible and easy to find through clear signage. Utilize public art and lighting to reinforce visibility and the relationship to its location;
- Place bicycle parking in locations closest to street edges and building entrances, especially retail and office entrances. For outdoor facilities prefer systems that include shelters and secure bike racks or lockers;
- In areas with high usage such large campuses consider centralized, enclosed, and managed bike parking facilities;
- Include shower and changing facilities as required per the City’s Zoning Code;
- Provide transit center parking facilities at convenient locations.



*Double skin façades can provide natural ventilation and improve insulation in office buildings.*



*Encourage innovative office building typologies that address changed work environments and needs, for example informal meeting places and atriums with good daylighting, ventilation and amenities.*



*Residential buildings should have a fine-grained articulation through porches, balconies and transition zones, particularly when fronting on a street or public pathway.*



*Office buildings that allow for natural light and ventilation, and include open spaces, provide a more pleasant work environment.*

## SUSTAINABLE SITE PLANNING

The Diridon Station Area will significantly increase overall sustainability through a mix of uses, high density buildings, and an urban environment that promotes walking, biking, and transit. Moreover, making sustainable systems and materials visible and comprehensible throughout the Diridon Station Area can contribute to San José's vision of becoming the World Center of Clean Tech Innovation. In accordance with City's policies for green design (refer to San José's Green Vision and Green Building Ordinance), site planning should integrate sustainable practices early in the process. Considerations should expand beyond the scale of a building or a site to the larger context of the district and can include but are not limited to the following strategies:

- Respond to existing and planned context:
  - Integrate and connect to local and on-site natural assets such as streams, large trees, or topography;
  - Connect to built assets such as pedestrian paths, parks, green fingers, trails, and public buildings that are on or near the site;
  - Consider solar orientation and topography for energy and water conservation purposes when siting buildings and new streets.
- Integrate rain and storm water collection, distribution, and retention systems on site, in open spaces, or in the streetscape;
- Consider an area wide integrated gray water system
- Consider the use of district based co-generation plants that provide heat and electricity;
- Use pervious materials for paths and parking areas throughout the area to increase rain water infiltration;
- Develop an area wide street tree and greening plan that uses native or drought tolerant species to reduce need for irrigation;
- Create an area wide waste management and reduction program;

- Use building roofs for energy generation or vegetation;
- Provide urban gardening opportunities in residential areas and community parks;
- Explore district or unbundled parking strategies to allow for flexibility in parking needs.

## GUIDELINES FOR BUILDINGS

The Diridon Station Area will become a destination within the larger region of Silicon Valley and represent San José a place of technical innovation and a great place to live. Visitors and residents are welcomed by world class entertainment venues, an abundance of open and recreational spaces, excellent shopping and work places, as well as residential areas that are less than a five minute walk away from one of the largest transit hubs in Northern California. The new urban districts will extend Downtown San José to the west side of the Guadalupe River and Route 87 with improved east-west connections that are currently impeded by the existing north-south transportation corridors and natural streams. While the land use plan will lay the foundation for the future development envisioned for the Diridon Station Area, it falls to the quality of architecture and open spaces to create a memorable and livable place. To ensure the highest quality that supports the overall intent, more specific building guidelines will need to be developed in the subsequent planning process but the following general building design principles support the vision for the Diridon Station Area:

- Deploy the most up-to-date green design methods and sustainable systems and materials early in the development process in accordance with the City's Green Vision and Green Building Ordinance;
- Make green building methods and systems as much visible as possible by integrating them into the building envelope or in open spaces;
- Encourage a variety of building typologies and architectural

~~styles that underline the area's contemporary character and its identity as a place of innovation;~~

- ~~• Ensure high quality architecture and design by selecting the architect and development team through a discriminating and competitive process, for example by conducting a design competition;~~
- ~~• Encourage new building typologies and layouts that reflect changed work environments and life styles, and allow for flexibility of use over time;~~
- ~~• Design all buildings with regards to its context and make them interact with the public realm;~~
- ~~• The main façades of buildings should generally be oriented parallel to public streets or pathways;~~
- ~~• Design all ground floor façades to respond to the pedestrian scale; avoid long stretches of blank walls~~
- ~~• Place the most active functions such as office spaces or customer areas along public streets;~~
- ~~• Design building volumes and façade portions to reflect their varying internal functions;~~
- ~~• Encourage the use of public art above the street level such as pieces that involve cladding elements and skyline delineation;~~
- ~~• Residential units at grade and facing a street should have an elevated ground floor level to provide a transition between the public and private realm;~~
- ~~• Encourage retail frontages to express a distinct personality, engaging the customer and contributing to placemaking;~~
- ~~• At least 60% of the ground floor retail façades should be glazed with clear, untinted glass;~~
- ~~• Prefer long lasting and low maintenance façade materials such as metals, glass, brick, engineered wood, concrete and stone. Use light colors for large façade areas;~~
- ~~• On the façades of large buildings, use a balanced mix of materials;~~

- Encourage building design and technology that minimizes energy consumption and environmental impacts over the building's life cycle;
- Encourage maximization of daylighting through skylights, atriums, light baffles, glazed northern façades, and shaded southern façades to reduce reliance on artificial lighting;
- Encourage operable windows or double skin façades to allow for natural ventilation;
- Use generous roof overhangs and awnings for shading;
- In cases where roofs will be visible from above, green roofs or non-reflective materials in neutral colors should be used;
- Minimize the visual impact of service areas and garage entrances by locating them in or behind buildings and away from public streets and pathways;
- Utility areas and boxes should be located out of sight from public streets and pathways and should be integrated in the overall design;
- Integrate a variety of usable open spaces in the building layout;
- Investigate opportunities to reuse existing buildings for new development.
- The parking garages for large commercial development should be designed to accommodate large event parking.

## 3.3 Public open space

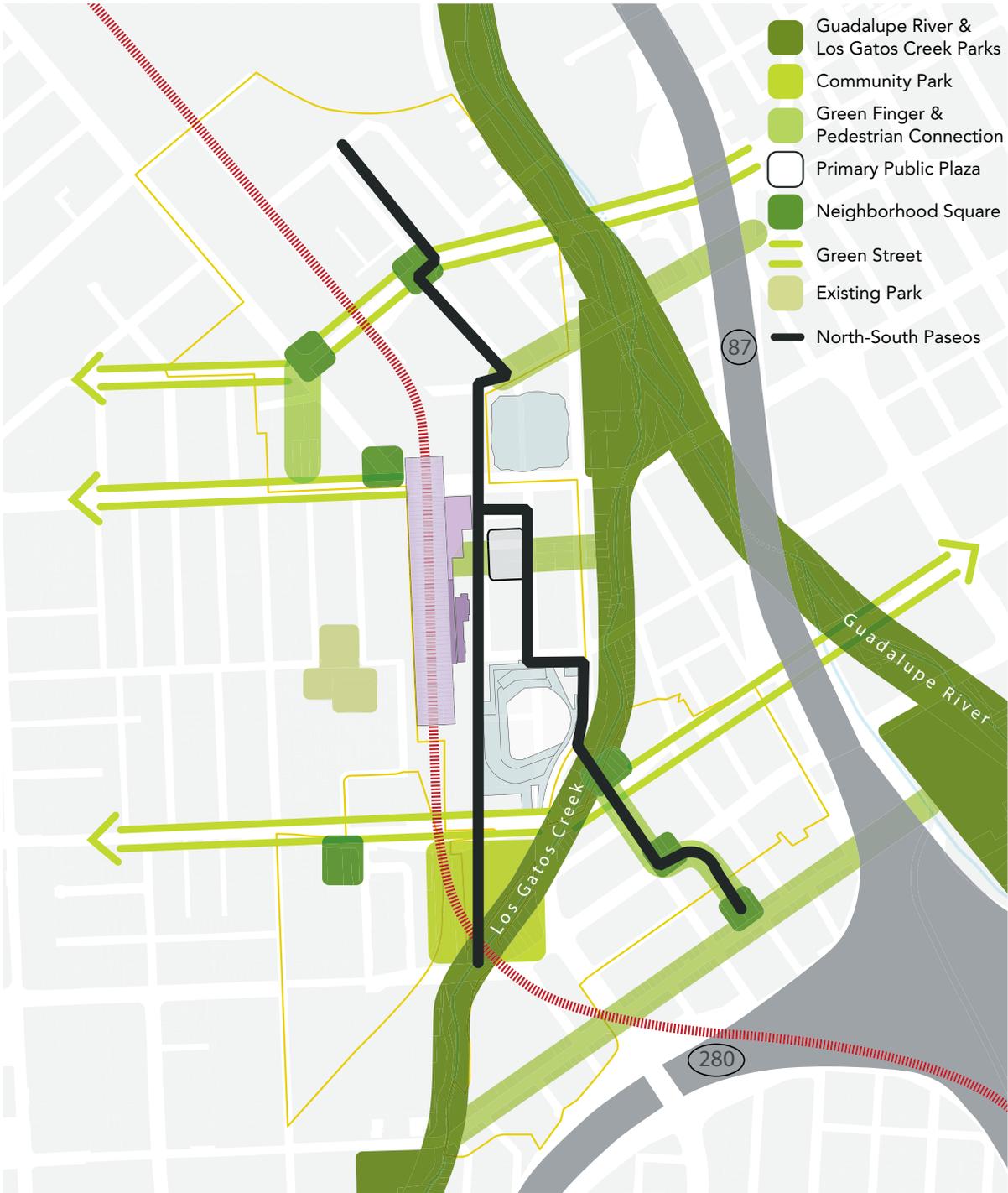
### GUIDELINES FOR OPEN SPACE NETWORK

An array of easily-accessible public and private open spaces woven into a network of Green Fingers that connect to the Guadalupe River and Los Gatos Creek trail system is an essential component the Diridon Station Area plan. These spaces and connections are an essential part of a lively community and a balanced distribution of such spaces will provide recreational, educational, sporting, and cultural benefits to residents, visitors, and employees. The plazas, squares, and parks in the Diridon Station Area can both respond to the character and needs of the existing neighborhoods while also serving as the catalyst that spurs new development. By connecting parks, squares, and other open spaces to the existing and planned street network with a consistent system of wayfinding signage and public art, a coherent and highly accessible network of open spaces can be created.

*Key open space goals of the Diridon Station Area Plan:*

- Develop a variety of open spaces including squares and parks of different size and character that enhance and distinguish the different subareas in the Diridon Station Area including:
  - o A central “Diridon Plaza” with an iconic civic identity for the station and station area;
  - o A community park that emphasizes sporting and recreational activities in the southern residential portion of the Station Area;
  - o Smaller squares and green spaces in the Innovation District and South of Diridon Neighborhoods that reflect the unique character.
- As a transit-rich community, the Diridon Station Area will benefit from a high level of pedestrian connectivity that allows residents, employees and visitors to easily forgo their vehicles while connecting to parts within the Station Area and to Downtown San José with a short walk or bicycle trip:

FIGURE 3-3-1 : PUBLIC OPEN SPACE NETWORK



- o Integrate pedestrian routes in the green network to provide connections in addition to streets;
- o Give the Green Fingers different character to create a series of distinguishable green pedestrian and bicycle routes that extend into the Station Area and along/from Guadalupe River and Los Gatos Creek;
- o ~~Create signature north-south pedestrian paseos that connect Diridon Station to the San José Arena and the Innovation District to the north, as well to the ballpark and the Diridon Neighborhoods to the south;~~
- o Create a number of additional pedestrian focused routes that have a high degree of visibility for people traveling to and from Diridon Station and Downtown San José;
- o Create a robust and safe bicycle network along station area roads.

- Make squares a focal point of development in each area. Encourage retail and/or residential uses around parks to activate them;
- Visually and physically connect parks and plazas to the Green Fingers to encourage walking and biking;
- Integrate public art throughout the public open space network.



*Bioswales retain rain water and reduce the impact on the storm water system. If designed well, they can improve and green the streetscape.*



*Permeable paving can help to reduce urban runoff while creating a distinctive look.*

### **SUSTAINABILITY/ GREEN DESIGN**

- Use of public space network to control urban storm water runoff through the use of bioswales and permeable paving;
- Implement principles of sustainable design including
  - o bioswales;
  - o permeable paving;
  - o educational ecological design;
  - o enriched pedestrian spaces and networks;

- o generous use of trees and other plant material to provide shading and reduce water run-off;
- o native and drought-tolerant plants.
- Protect the Guadalupe River and Los Gatos Creek watersheds;
- ~~Use vegetation on roofs or other large surfaces to mitigate heat island effects;~~
- Reduce pollution and urban storm water runoff;
- Design according to San José’s 2022 Green Vision goals
- Signage should also function as public art and be attractively designed, using clean modern fonts that are highly legible



*Easy-to-read signage helps orientation and contributes to the neighborhood’s identity.*

**CONNECTIONS TO GUADALUPE RIVER & LOS GATOS CREEK**

The Green Fingers connect the new development of the Diridon Station Area to existing key recreational and pedestrian networks, the Guadalupe River and Los Gatos Creek. They provide residents and employees with connections to these parks and recreation opportunities and help define the emerging character of the station area as a sustainable and green urban community.

The Green Fingers:

- Allow for connections to the trail system along these two waterways to the north and south well beyond the station area;
- Offer alternative pedestrian/bike routes through the station area;
- Provide through-connections that continue to downtown.



*In addition to assist wayfinding, signage can also be used to tell the story of the Diridon Station Area.*



*Include a large-scale public art piece with iconic qualities that reflects San José's innovative spirit.*



*Integrate public art with important station area infrastructure to create a unique identity for the area.*



*Pedestrian underpasses can be made more pleasant by integrating art and creative lighting.*

## SIGNAGE

The Diridon Station Area will be one of the most visited areas in all of San José, with two major event venues and an highly active transit hub. Many of these visitors will be new to the city or only occasional visitors, which is why a clear signage system focused on the destinations within the station area will be essential.

- Signage should direct people to key pedestrian and automobile routes in the station area, and to downtown and adjacent neighborhoods;
- ~~Signage for buildings should have a function to serve as public art and be attractively designed, using modern fonts that are highly legible;~~
- Focus on major attractions in the core area of the district;
- Direct visitors to downtown and its attractions;
- Tie into San José Redevelopment Agency's Downtown Signage Master Plan;
- Implement a system of kiosks, pedestrian route signage, and automobile signage;
- Include a comprehensive signage system for transfers to taxi and shuttle services, and to car share facilities.

## PUBLIC ART

The City of San José values public art as a reflection of its creative character. Public art in the Diridon Station Area can enrich the public realm, capturing the changing character of the area and contributing to its visual legibility. As detailed in "At the Crossroads: Diridon Station Area Master Plan" (refer to Appendix B - References), public art will play key role in emphasizing the vision of the Diridon Station Area as a crossroads for innovation, engagement and ecology. Artworks can be commissioned to reinforce the goals of these guidelines and to create landmarks, opportunities for community interaction, and human-scaled places.

The placement of public artworks in the Diridon Station Area will be determined through an area-wide strategy that identifies the best opportunities. Public art projects funded through eligible City of San José capital construction projects will be commissioned for all elements of the station area as detailed in the master plan. Public funds will also be pooled to commission prominent public artworks of area-wide significance. Private developers will be encouraged to voluntarily integrate permanent and temporary public art into communal spaces at their retail, commercial, and residential development projects, or to contribute to public art pooled funds for the creation of significant public artworks.

- Include public art in unexpected places and unexpected ways to infuse Diridon with an element of surprise, playfulness, and whimsy;
- Locate public art to mark key paths of movement (such as trails, corridors, and connections), to highlight major entries (to both the Diridon Station Area as a whole and to specific sub-areas), and to anchor key spaces;
- Commission public artworks that act as “community hearths”, stimulating interaction where people of different communities or user groups meet;
- Commission public artworks at a variety of scales
  - Large-scale “City Image” projects that create the “postcard” image that people think of when they think of the Diridon Station Area;
  - Area-scale projects that provide orientation and identity to different sub-areas in the Diridon Station Area; and
  - Neighborhood-scale projects that relate to the way that people work and live in the Diridon Station Area.
- Create “strong spots” and “hot spots” for the placement of temporary public artworks, focused on gathering spaces and pedestrian-oriented experiences, that create a sense of excitement and expectation;



*Office buildings in the central zone should be urban in character, with active ground floor uses and small public spaces.*



*An active major plaza in the central district can help to generate a vibrant 24/7 neighborhood (example: Victory Plaza, Dallas).*



*Architecture and site layout in the Innovation District should reflect the innovative character of companies and their new work environments.*



*Higher density residential development can take advantage of the proximity to one of the largest intermodal transit hubs in the Bay Area.*

- Locate public art in interstitial places, weaving together zones where different kinds of uses overlap, such as places where parks and schools, businesses and residential areas, or transit and pedestrian areas meet;
- Use public art to enhance the trail system, creating unique artworks at areas where trails meet parks or schools; also include smaller-scaled functional and interpretive art elements along the trail;
- Refer to “At the Crossroads: Diridon Station Area Master Plan” for more detailed recommendations.

## **DISTRICT CHARACTER**

Each district in the Station Area will have a distinct feel and character to its open spaces. Through the use of materials, design and implementation the station area will emerge as three distinct neighborhoods that form a high density and highly desirable transit oriented extension of the downtown.

### ***Central Zone - Destination Diridon***

- As the central transit hub of San José and the South Bay, open spaces in the district should be distinguished by a forward thinking and modern design palette that can stand the test of time;
- Elements should be designed and specified for high density use and wear;
- As a front doorstep to the city and the region, materials and furnishings should be of the highest quality and design;
- Public art elements and other design elements should be iconic and unique to the district.

### ***Northern Zone - Innovation District***

- Emphasize green technologies and sustainable design in open spaces within this district to reflect its unique character as an incubator of technology and green design;
- Make use of high technology elements (e.g.: LED lighting,

interactive public art elements, etc.) in open spaces that are distinct to the district;

- Emphasize a modern look and feel to open space design and furnishings that also employ sustainable materials and design (sustainably harvested woods, recycled materials, low energy lighting, integrated stormwater management, etc.);
- Consider the creation of a central plaza or open space that reflects the spirit of innovation and that can become a destination in its own right, for example for temporary outdoor exhibitions or events.

#### ***Southern Zone - Diridon Neighborhoods***

- Emphasize the urban character of this transit-oriented residential neighborhood through compact layout and higher density;
- Give open spaces flexibility in design to allow them to be gathering spaces for the neighborhood and to function as the neighborhoods living room;
- Open spaces in this district should be greener with a greater percentage of softscape than in the other districts;
- Appropriate street width with building heights that create a comfortable sense of enclosure, intimacy, and safety;
- Use building materials, plantings and landscaping that lend a warm urban living environment.

Guidelines for Plazas, Squares, Community Park, & Green Fingers

### **DIRIDON PLAZA**

A substantial, iconic plaza centrally located and anchoring the Diridon Station will create an urban living room where workers, residents, and visitors can gather and meet. The design of this central plaza should take into consideration its intended uses, its proximity to Diridon Station, and relationships to other public open spaces and amenities. Its open space, facilities, and landscaping should be able to accommodate large-scale events such as performances or temporary outdoor markets, as well as



*The primary plaza should be a highly visible and distinct public place that includes unique design features and different zones for a variety of activities (examples: Exchange Square in Manchester, UK, and Schouwburgplein in Rotterdam, NL).*



*A lush tree canopy in the Green Fingers will help mitigate the heat island effect while providing a respite to the higher densities of the new development.*



*Pedestrian-friendly uses including residential buildings and entrances should line the Green Fingers.*



*The Green Fingers should include amenities and elements for different activities.*

smaller-scale activities that will occur on a more frequent basis, in order to serve as a gathering place for all.

- Provide connections from the plaza to nearby paseos, pathways, the Guadalupe River and Los Gatos Creek, and to downtown.
- Require pedestrian-friendly, interactive uses such as retail, restaurants, and cafés on the ground-floor of surrounding buildings;
- Require such ground floor uses to expand to the park/plaza, for example through café seating or outdoor merchandise displays;
- Provide spaces within the park/plaza that support flexible rather than fixed program elements;
- Provide larger-scaled hardscaped and softscaped areas to accommodate events like concerts, performances, parades, farmers' markets, rallies, and film screenings;
- Provide a variety of smaller-scaled seating areas and shade structures for day-to-day use;
- Design for both daytime and evening use;
- Incorporate large-scale public art that has iconic qualities. Also create opportunities for temporary art;
- Typical urban plaza elements that could be integrated into the Diridon Plaza include:
  - o Amphitheater seating with shade;
  - o Interactive water feature;
  - o Major public art element;
  - o Special plaza lighting;
  - o Display area and stage;
  - o Concession stands and rest rooms.

Alternative illustrative concepts for the Diridon Plaza are included in section 2.4 of this report

## GREEN FINGERS

A series of Green Fingers extending from the Guadalupe River and Los Gatos Creek into the station area form the backbone of the open space network in the Diridon Station Area and provide pleasant pedestrian and bike friendly connections to the different districts and downtown. Along the green fingers lie a number of neighborhood squares creating a series of focal points for gathering and respite. The Green Fingers are envisioned as wide linear parks of different character that, in addition to creating pedestrian links, provide sustainable design elements to abate urban pollution and run-off. Depending on their location the green fingers will be designed to have a character unique to the district for which they lie.

- Develop different context-based themes for the Green Fingers;
- Provide for generous spaces for walking and bicycling;
- If along an existing road, create an ample separation from traffic;
- Integrate permanent and temporary public art throughout;
- Design in a sustainable manner with permeable paving and water infiltration strategies;
- Use a generous plant palette of trees and other plant material to create a park like environment;
- Provide seating and other opportunities for respite;
- Provide ample pedestrian focused lighting;
- Connect and integrate with neighborhood squares;
- Encourage higher density mixed-use development along the Green Fingers;
- Encourage pedestrian-friendly, interactive uses such as retail, restaurants, and cafés on the ground-floor of surrounding buildings or allow for stand-alone small buildings and kiosks in the Green Fingers for such uses;



*Use distinctive paving and vegetation to help demarcate the north-south urban paseos.*



*Line the paseos with ground floor uses including retail, commercial units, and entrances.*



Ensure that the design of neighborhood squares matches the character, density and needs of the surrounding area.

- Encourage such uses to 'spill out' into and engage the green fingers, for example through café seating or outdoor merchandise displays;
- Establish a distinct character for the Green Fingers based on the neighborhood they are located in;
- Provide a pedestrian focused wayfinding system along the Green Fingers.

### **NORTH-SOUTH URBAN PASEOS**



Smaller public plazas should be visible from the street and integrated in the block layout. Plenty of seating, greenery, shading, and amenities are essential.

In addition to the Green Fingers running east-west and along the Guadalupe River and Los Gatos Creek in the station area, two main north-south pedestrian connections between the San José Arena, the Innovation District to the north, the ballpark, and the neighborhoods to the south will be essential in handling the large number of pedestrians that will use the Station area on a daily basis and during events. These pedestrian paseos will connect visitors and residents not only to the two large event venues but to adjacent entertainment and retail opportunities, places of work, and the residential neighborhoods as well. The paseos will represent a signature urban experience in the station area. The two routes, which are shown in Figure 3-3-1 connect with a combination of existing public streets and proposed new streets. The actual route will be dependent on the eventual alignments of new streets in the Station Area.



Encourage small public plazas that connect to pedestrian paths throughout the neighborhoods and office campuses.

- Paseos should be urban in character allowing for easy and efficient travel by foot;
- Encourage higher density mixed-use development along the paseos;
- Encourage pedestrian-friendly, interactive uses such as retail, restaurants, and cafés on the ground floor of surrounding buildings;

- ~~Encourage such uses to extend to the paseos, for example through café seating or outdoor merchandise displays;~~
- ~~Provide ample pedestrian lighting including a necklace of lights along the length of the paseos to provide safety and identity;~~
- ~~Provide a singular tree canopy along the paseos to mark and distinguish it as passes through the station area;~~
- ~~Provide a pedestrian focused wayfinding system along the paseos.~~



*Community gardens bring the community together and support local food growing; they can be located in the community park and/or in other open spaces that are part of the green network.*

## NEIGHBORHOOD PARKS AND SQUARES

Neighborhood parks and squares that serve as nodes for development and gathering are proposed throughout the Innovation District and the Diridon Neighborhoods. These spaces, though smaller in size than Diridon Plaza, share many of the same elements while emphasizing the distinct character of each neighborhood. A network of local spaces that meet the needs of nearby residents of all ages and offer recreational and leisure space, such as seating, tot-lots, hard- and softscapes, will encourage daytime use and community interaction. Residents who perceive their local parks and squares to be a safe, secure, usable, and well-maintained places will embrace them and use them extensively.

- Parks or squares should be connected with the pedestrian network in the Green Fingers and the neighborhoods;
- Parks or squares should be less than one acre in size;
- Encourage higher density mixed-use development along the perimeter of parks and squares;
- Encourage pedestrian-friendly, interactive uses such as retail, restaurants, and cafés for the ground-floor uses of surrounding buildings;



*Provide a variety of recreation opportunities in the community park.*



*Include abundant seating opportunities throughout squares and parks.*



*Small kiosks and cafés can attract visitors and contribute to a park's liveliness.*

- Encourage such uses to extend to open spaces, for example through café seating or outdoor merchandise displays;
- Parks should face onto public streets or pathways on at least two sides to clearly define them as public space;
- Programming should provide for a variety of uses including zones for children to play and informal areas that allow for various experiences and activities for people of all abilities;
- Public art should be integrated into the design to reinforce a sense of the neighborhood;
- Provide a variety of smaller-scaled seating areas and shade structures for day-to-day use;
- Design for both daytime and evening use;
- Typical park and square elements include:
  - o Variety of seating opportunities;
  - o A mix of hardscape and softscape elements that respond to the surrounding conditions;
  - o Public art elements, ideally designed as a core element of the park or square;
  - o Flexible space for gatherings and events;
  - o Parks can include small scale community gardens.

## COMMUNITY PARK

- A large community park will give the Diridon Station Area a place for more intense sporting and recreational activities, providing a counterpoint to the civic focus of the Diridon Plaza. The park should provide multiple sports fields and substantial community facilities, as well as areas of non-programmed green space for more informal recreational uses. Such a park can serve as a green oasis amid the more urban development in the Diridon Station Area. Since it is meant primarily to serve the Diridon Station Area residents, the community park should be placed closest to residential neighborhoods (refer to Figure 2-1-1 Land Use Plan in Chapter 2);
- Locate the park close to one of the pedestrian/bicycle routes which cross the Diridon Station Area;
- The park should face onto a public street or pathway on at least three and preferably on all four sides;
- Provide secure bicycle parking adjacent to park facilities and throughout the park;
- Street parking should be provided around the park perimeter if feasible and on-site parking should be located near activity nodes;
- Locate larger facilities such as a community center along the edges of the park, and closest to transit connections;
- Orient park facility entrances to a public street or pathway, and integrate facilities' outdoor areas into the park setting;
- Along with rest rooms, provide electrical and water hookups to support a snack bar or café, to permit and encourage longer visits to the park;
- Make the park accessible from all sides and place main entrances along public streets;

- Provide electrical hookups and other infrastructure (for example, wireless internet access) for stage areas to encourage outdoor events;
- Design a pedestrian pathway system that allows for direct connections through the park to all activity areas, and also to the public trail network;
- Include active and informal recreational areas throughout the park;
- Provide trees and shade structures, particularly in picnic areas and by play areas;
- Incorporate public art that reinforces a sense of place and enhances engagement;
- The south-west corner of the park is located below the elevated High Speed Rail tracks. The area below the tracks should be a fully integrated part of the park with uses which are of benefit to the community and compatible with their location.

## 3.4 Streetscapes

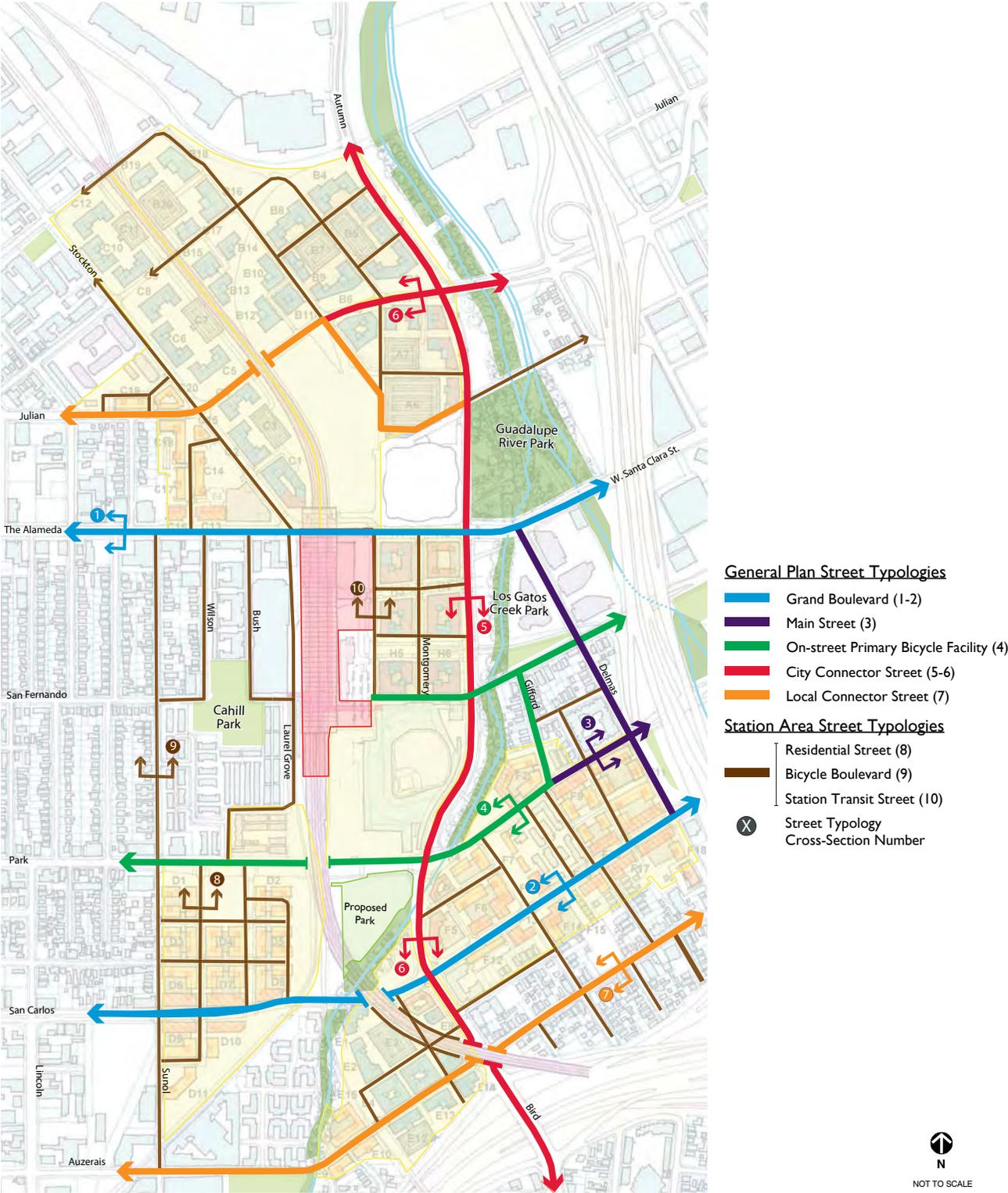
### PROPOSED STREET TYPOLOGIES

To ensure a balanced, multimodal transportation network, the Preferred Alternative organizes streets and other transportation facilities according to “typologies.” Street typologies are an expansion of functional classifications that consider street context and prioritize certain travel modes and certain types of streets. For example, the Preferred Alternative includes a “Grand Boulevard” street typology, consistent with the City’s “Envision San José 2040 General Plan”, on which the movement of transit vehicles is prioritized over other modes of travel. Street typologies reflect a roadway’s adjacent land use, appropriate travel speeds, and the need to accommodate multiple travel modes.

The proposed typologies are intended to provide a network of “complete streets” that accommodates the various users of the streets. By addressing the needs of all uses of the transportation network, complete streets not only improve safety for all users and foster strong communities, but also address climate change, by increasing accessibility and viability of travel modes other than the automobile. Adjacent land use influences the functionality and character of the street environment. A well-integrated street system considers the complementary relationship between land use, local and regional travel needs. The complete streets concept applies to all types of roads from downtown pedestrian streets to high-capacity commercial corridors, and it considers the range of users, including children, the disabled and seniors.

The following General Plan and Station Area street typology definitions, which incorporate the principles of complete streets, apply to the streets and other facilities that make up the Preferred Alternative circulation network, as shown on Figure 3-4-1. From these street typologies, which are consistent with the City’s Envision San José 2040 General Plan, street cross-sections were developed. These cross-sections are identified and illustrated below. It should

FIGURE 3-4-1 : PROPOSED STREET TYPOLOGIES



be noted that these street typologies are somewhat independent of the “Green Fingers” overlay, as any of the street sections shown in this section could be included within a “Green Finger”.

## GENERAL PLAN STREET TYPOLOGIES

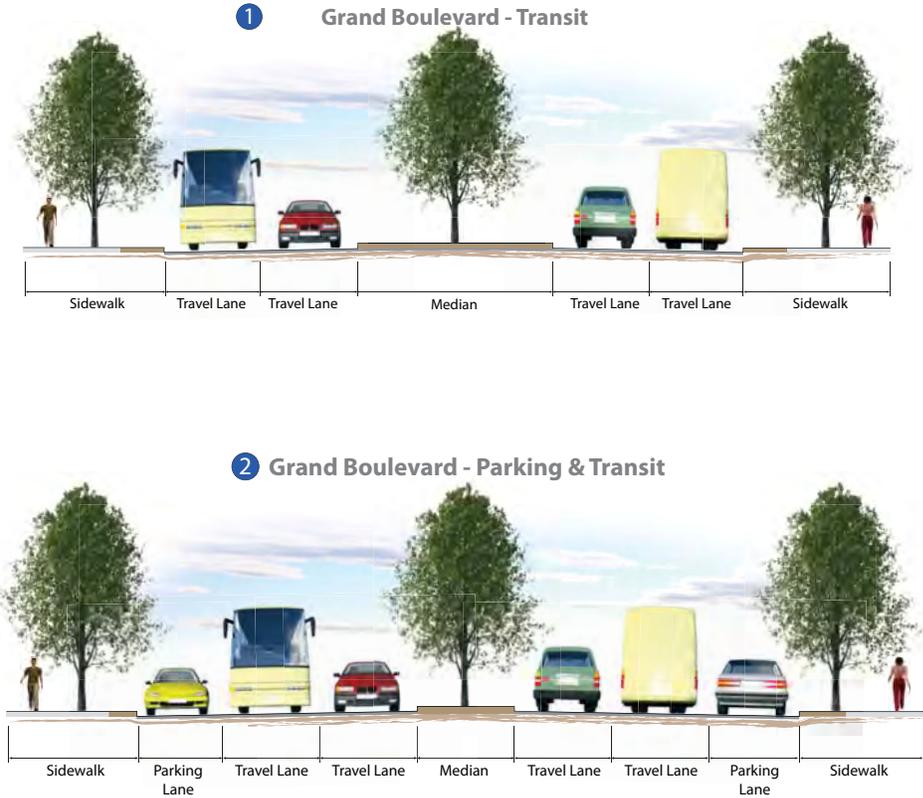
### GRAND BOULEVARD

Grand Boulevards serve as major transportation corridors that connect City neighborhoods. In most cases these are primary routes for Valley Transportation Authority (VTA) light-rail, bus rapid transit (BRT), and standard/community buses, as well as other public transit vehicles. Transit service is the primary mode on Grand Boulevards. Signal preemption for transit vehicles, bus stops, and, where appropriate, exclusive transit lanes, will be provided. Other travel modes, including automobiles, bicycles, and trucks, are accommodated in the roadway, but if there are conflicts, transit has priority. Grand Boulevards contribute to the City’s overall identity through cohesive design. Within the public right-of-way, special measures could include enhanced landscaping, attractive lighting, and identification banners. These streets can accommodate moderate to high volumes of through traffic within and beyond the city. Pedestrians are accommodated with ample sidewalks on both sides, and pedestrian amenities are enhanced around transit stops.

Grand Boulevard features are incorporated into the following General Plan Street Typology cross-sections as seen on the following page (Figure 3-4-2):

- 1) Grand Boulevard - Bicycle and Transit Street
- 2) Grand Boulevard - Parking and Transit Street

FIGURE 3-4-2: GRAND BOULEVARDS





*Passeig-de-Gracia is one of Barcelona's great boulevards that is a combined a transportation corridor and major shopping street.*

## MAIN STREET

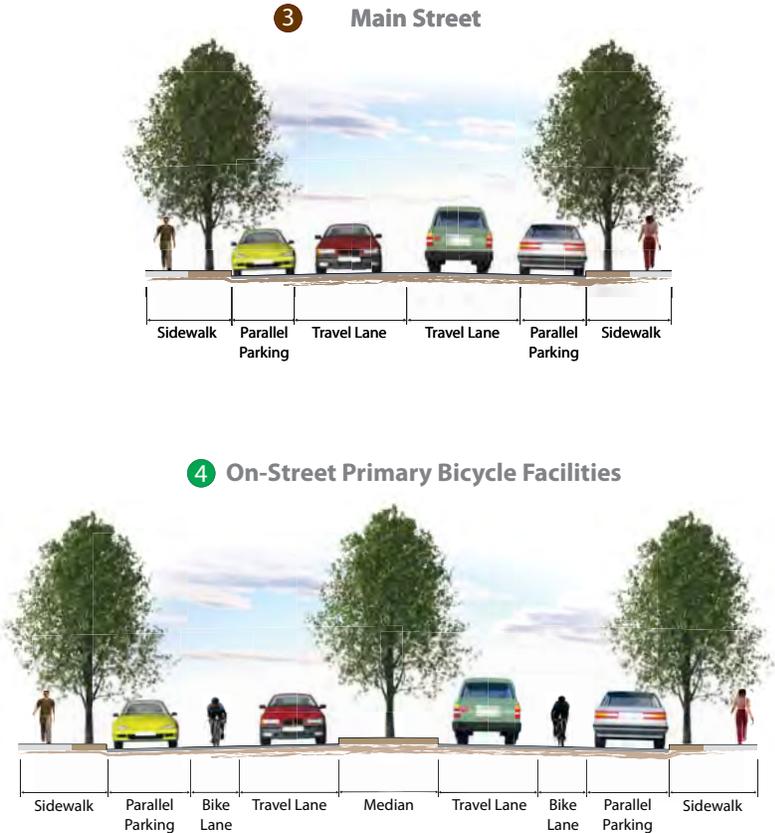
Main Streets are roadways that play an important commercial and social role for the local neighborhood area, supporting retail and service activities that serve the local neighborhood residents, and providing an urban street space for social community gathering and recreational activities.

The Main Street's physical form supports many transportation modes, with significant emphasis given to pedestrian activity. Main Streets are streets on which high volumes of pedestrian traffic are encouraged on the sidewalks. Sidewalks should be wide with ample pedestrian amenities, including street trees, high-quality landscaping, pedestrian curb extensions or bulbouts, enhanced street crossings, and pedestrian-oriented signage identifying trails and points of interest. Additionally, signals should be timed to minimize pedestrian delay. Pedestrian crossings should have a high priority at intersections. Building frontages should be pedestrian oriented and pedestrian scale with buildings and entrances located adjacent to public sidewalks.

## ON-STREET PRIMARY BICYCLE FACILITY

On-Street Primary Bicycle Facilities are either Class II bike lanes or Class III signed bike routes, and are through routes for bicycles, providing continuous access and connections to the local and regional bicycle network. These facilities correspond to the primary bicycle network described in the San José Bike Plan 2020. Through and high volumes of motor vehicle traffic are generally discouraged, but may be allowed in localized areas where necessary to accommodate adjacent land uses. Local automobile, truck, transit and pedestrian traffic are accommodated in the roadway, but if there are conflicts, bicycles and pedestrians have priority. Reduced speed limits and neighborhood traffic management strategies to slow and discourage through automobile and truck traffic may be appropriate. Pedestrians are also accommodated (also refer to the

FIGURE 3-4-3: MAIN STREET AND ON-STREET PRIMARY BICYCLE FACILITIES

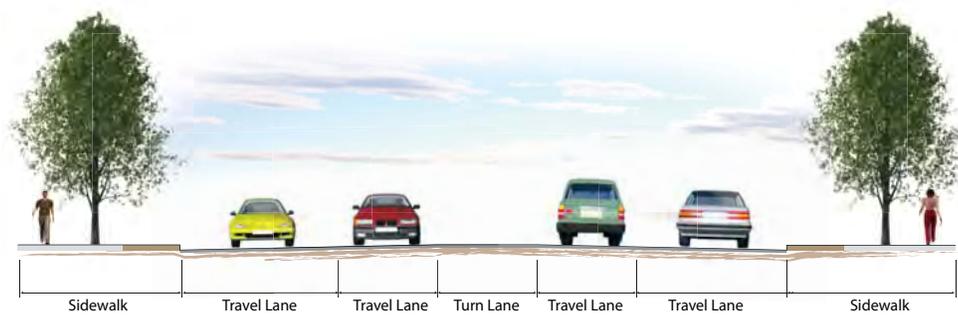


Guidelines for Streetscape Design/On-Street Bicycle Treatments section in this chapter).

Main Street and On-Street Primary Bicycle Facility features are depicted in the General Plan Street Typology cross-sections in Figure 3-4-3:

FIGURE 3-4-4: CITY CONNECTOR STREETS

**5 City Connector Street without Median**



**6 City Connector Street with Possible Median**

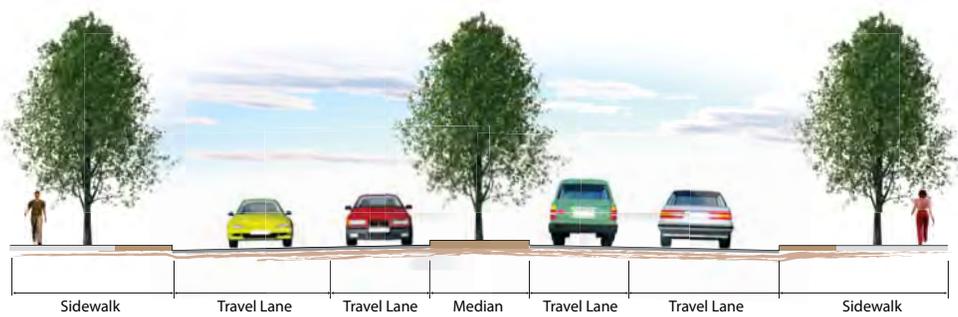
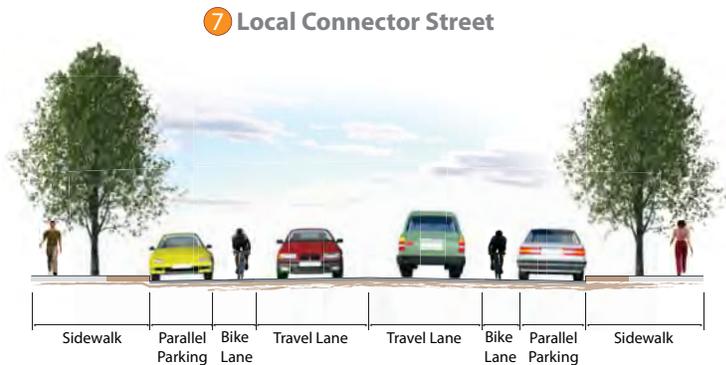


FIGURE 3-4-5: LOCAL CONNECTOR STREET



Separated and colored Class II bike lanes improve visibility and safety for cyclists (example: New York City)

**CITY CONNECTOR STREET**

Automobiles, bicycles, pedestrians, and trucks are prioritized equally in this roadway type. Transit use, if any, is incidental. These streets typically have four or six traffic lanes and would accommodate moderate to high volumes of through traffic within and beyond the City. Pedestrians are accommodated with sidewalks.

**LOCAL CONNECTOR STREET**

Automobiles, bicycles, pedestrians, and trucks are prioritized equally in the roadway. Transit use, if any, is incidental. These streets have two traffic lanes and would accommodate low to moderate volumes of through traffic within the City. Pedestrians are accommodated with sidewalks.

City Connector and Local Connector Streets are depicted in the General Plan Street Typology cross-sections in Figures 3-4-4 and 3-4-5.



A Class III bike way is marked with a sharrow to indicate that the street is shared by cyclists and motorized traffic

## STATION AREA STREET TYPOLOGIES

The following proposed street typologies, as shown in Figure 3-4-6, are part of the Final Plan for the Diridon Station Area, but are not in the City's Envision San José 2040 General Plan.

### **RESIDENTIAL STREET**

Automobiles, bicycles and trucks are accommodated equally in the roadway. Transit use is rare. These streets accommodate low volumes of local traffic and primarily provide access to property. Through traffic is discouraged. Neighborhood traffic management strategies to slow and discourage through automobile and truck traffic may be appropriate. Pedestrians are accommodated with sidewalks or paths.

### **BICYCLE BOULEVARD**

A bicycle boulevard is a local street in which the two travel lanes are shared by bicycle and motorized vehicles. Parallel parking and sidewalks ensure pedestrian accommodation and the street has a low volume of traffic.

### **STATION TRANSIT STREET**

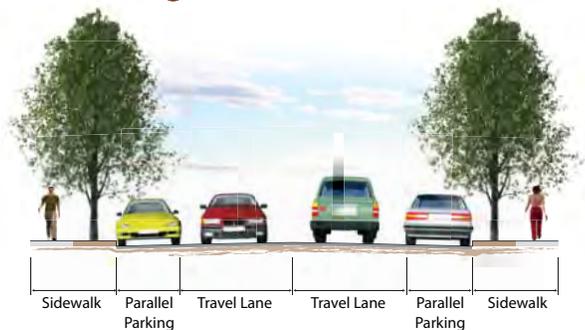
The street which fronts Diridon Station is a Station Transit Street. It is a street for all vehicles with a prioritization for taxis, transit buses and shuttles. Sidewalks are generous in width to provide for comfortable pedestrian access.

### **PASEOS**

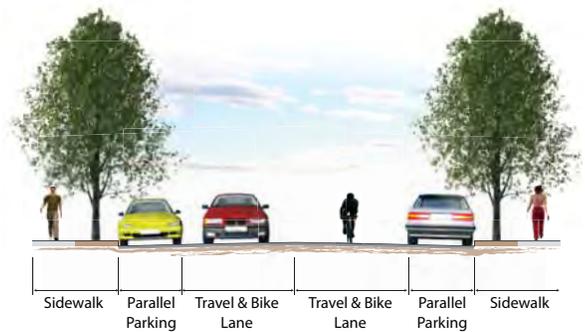
Paseos provide shortcuts that encourage walking and biking by increasing visibility and accessibility between different areas of The Diridon Station Area. In addition to the two main paseos (refer to Figure 3-3-1 and Section 3.3 Public Open Space/North-South

FIGURE 3-4-6: RESIDENTIAL STREET, BICYCLE BOULEVARD AND STATION TRANSIT STREETS

**8 Residential Street**

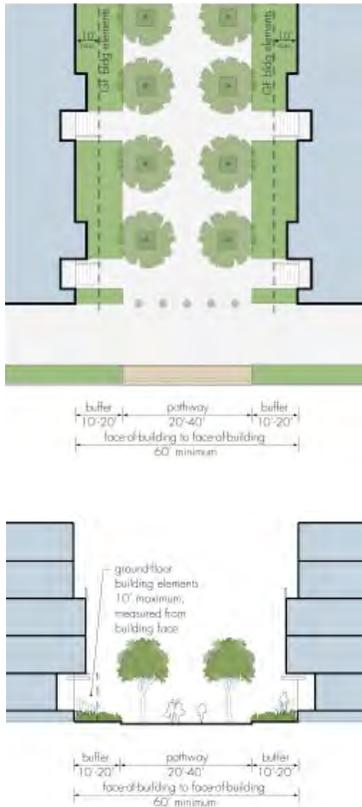


**9 Bike Boulevard**



**10 Station Transit Street**





Typical layout and dimensions for paseos.

Urban Paseos), smaller paseos can be implemented to increase overall bike and pedestrian connectivity. They can also provide a more shaded experience, increasing pedestrian comfort, particularly in the hot summer months.

- When streets are not feasible, provide paseos for public circulation. When provided in lieu of a new street, paseos should have the same width as a comparable street;
- Connect paseos to pedestrian pathways and public streets, plazas and open spaces; interconnect paseos to form a network;
- Paseos in residential blocks shall be open to the public, but paseos in commercial blocks may in some cases be restricted to tenants and visitors;
- Paseos should have a minimum width of 60 feet from building face to building face. Ground floor building elements that project a maximum of 10 feet from the building face are allowed except in conditions where smaller widths are necessary;
- Visibility should be maintained through each paseo from one end to the other;
- Provide a 20-foot wide clear pathway if a fire lane is required;
- Provide trees, landscaping, street furniture, and pedestrian lighting to create a street environment;
- Develop a consistent palette of street furniture and materials within a given paseo to make the paths recognizable as an interconnected network;
- Use water-permeable surfaces where appropriate. If on-site water retention is intended, encourage the integration of stormwater collection systems such as bioswales and rills;
- Integrate public art as a part of provided amenities and as unique elements to enhance the pedestrian experience. Encourage building owners to incorporate artist designed

elements into façades to create a more unique and identifiable presence.

## GUIDELINES FOR STREETScape DESIGN

Streetscape elements can help support and guide people on their way through the Diridon Station Area. Features such as benches, flower planters, bike racks, lighting, public art, signage, and drinking fountains enhance sidewalk areas and provide needed amenities to pedestrians while they are visiting a neighborhood. Pedestrian bulb-outs, mid-crosswalk refuges, and crosswalk pavement changes help make streets with heavy traffic feel more pedestrian-friendly, encouraging walking and transit use.

### PEDESTRIAN CROSSINGS

- Use features such as bulb-outs, speed tables, and changes in pavement to improve visibility and pedestrian comfort;
- On wider streets with medians, include mid-crosswalk pedestrian refuges;
- Implement Pedestrian Scramble signal phase on Montgomery/ Santa Clara intersection and as well as other intersections as pedestrian traffic increases;
- Use high visibility striping or special paving treatments on all major intersections.

### ON STREET BICYCLE TREATMENTS

- Use colored pavement to demarcate bicycle lanes;
- Where feasible, create a separated bicycle lane to help protect bicyclists from adjacent traffic;
- Use sharrow markings on streets too narrow for Class I or Class II bike lanes but have high bicycle traffic volumes.

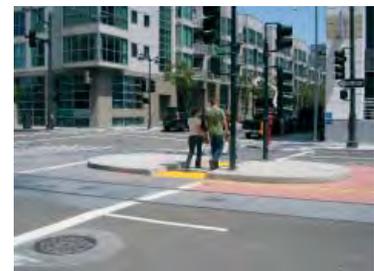
Also refer to On-Street Primary Bicycle Facilities in this section.



*This pedestrian scramble in London uses special pavement for the crossings.*



*Speed tables work to both slow down traffic as well as provide a clear pathway way for pedestrian travel. They can be adopted for both residential and urban conditions.*



*Provide pedestrian refuges on busy streets throughout the Station Area.*



Provide easily-accessible and secure bike parking facilities close to building entrances.



Underpasses can be significantly improved by public art, artificial and natural lighting.

## BICYCLE PARKING

- Provide secured bicycle parking at the Diridon Station, the ballpark, and the San José Arena ;
- Ensure that new development includes secured bike parking and showering facilities;
- Provide covered bicycle parking areas in all parking garages;
- Provide for sidewalk bicycle racks throughout the Station Area.

## UNDERPASSES

Throughout and directly adjacent to the station area, thirteen underpasses either exist or are proposed. These underpasses connect the station area:

- To downtown under State Route 87;
- To The Alameda and neighborhoods further west under the railroad tracks.

These underpasses are critical links in the connective tissue of the station area. To reduce the disjunction most underpasses cause between neighborhoods it is vitally important to improve both the pedestrian and aesthetic qualities of the existing underpasses and to make sure new underpasses are inviting and safe for pedestrians.

- Provide attractive and effective pedestrian scale lighting;
- Provide generous sidewalks for pedestrians;
- Use public art to improve aesthetics of underpasses
- Make underpasses as short as possible;
- Develop a management plan to clean underpasses on bi-weekly basis including pedestrian sidewalks and adjacent walls.

## HIGH SPEED RAIL VIADUCT

If high speed rail is elevated, it would be up to sixty (60) feet above the roadway and create a physical barrier. The design of any viaduct should be carefully considered and meet the highest standards of

design and construction, as it would constitute a dominant element of architecture throughout the station area.

- Create a viaduct that conveys a sense of lightness, using designs that minimize the bulky look of support posts and berms;
- Ensure that the viaduct has an open design with large openings along its length;
- In areas where the viaduct does not run over ground level tracks, reuse the space for pocket or linear parks, parking garages or lots or, where feasible, building sites. Ensure that the area below the viaduct is improved and maintained as an integral element of the adjoining land and that it is not fenced or neglected;
- Use public art as part of the design of the viaduct.



*Attention to detail and materials can enhance the elevated railway structure.*



*The elevated railway structure can include ground floor uses that activate the street level.*

### STREET FURNITURE

- Along primary streets, use a signature palette of street furniture and lighting in each of the station area's districts to help define the Diridon Station Area's identity;
- Integrate public art into planned amenities to create unique and engaging streetscapes;
- Integrate bus shelters into overall streetscape design, placing them away from the street edge when possible;
- In retail areas, utilize street furniture such as benches and planters to enhance the pedestrian realm and soften the street edge.



*A distinctive palette of street furnishings will help give the districts a distinct identity.*

### STREET LIGHTING

- Provide pedestrian-scale lighting on all key streets and pedestrian pathways as well as along the north-south paseos.

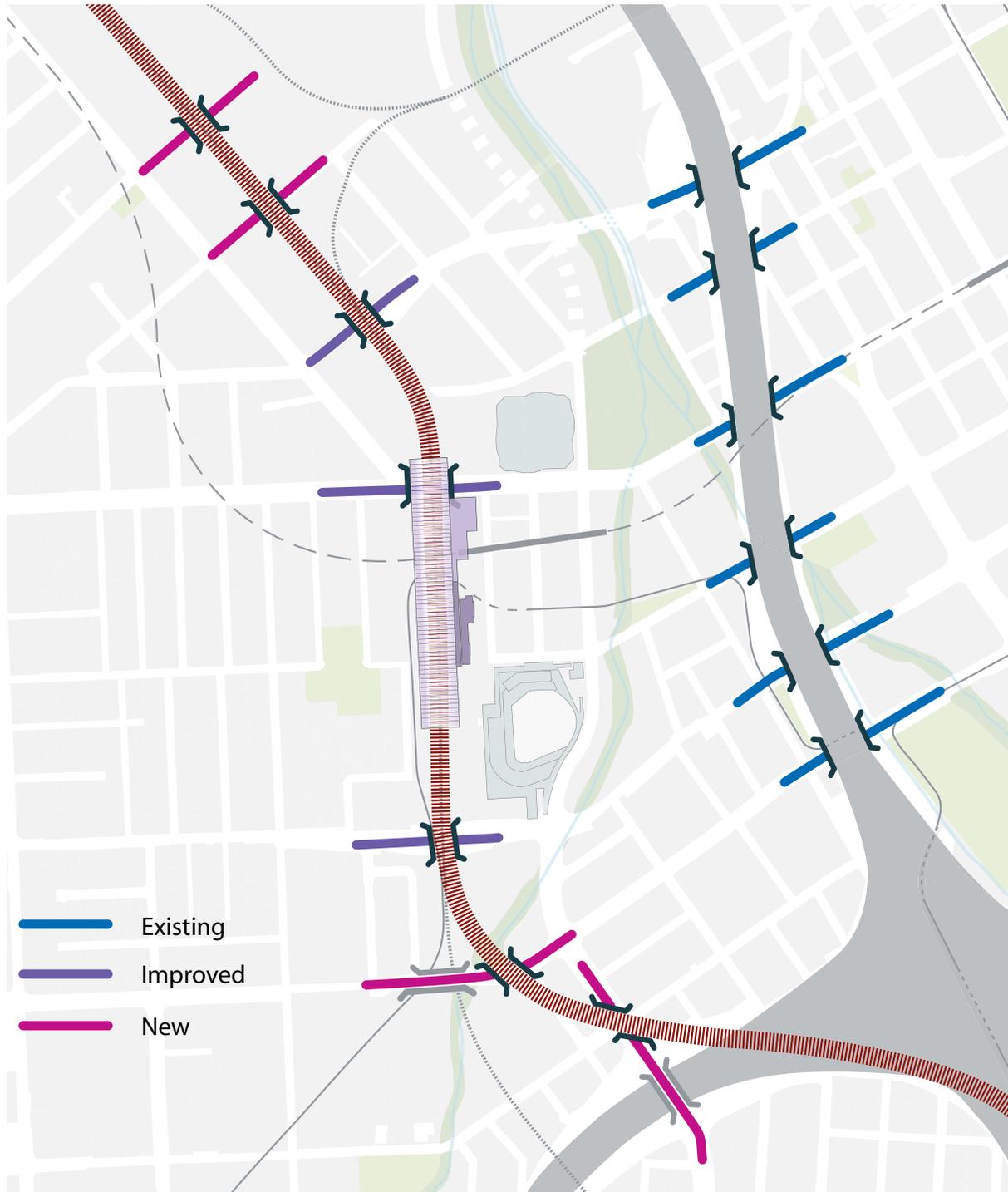
### SIDEWALKS

- Provide enhanced sidewalk widths on key pedestrian streets;
- In residential areas or along private streets, allow sidewalk areas to have a more vegetated character - along with planting



*Bus shelters can become distinct and recognizable elements in the streetscape*

FIGURE 3-4-7: UNDERPASSES



strips, consider using bioswales for stormwater filtration;

- Consider using permeable pavers or paving on sidewalks.

### STREET PARKING

- In retail districts, encourage the use of parallel on-street parking to provide parking for short-term visits (also refer to Section 3.4 Streetscapes: Street Hierarchy and Typologies);
- Consider creative paving options in parking areas; for example, mark parking spots through a change in pavement rather than through striping;
- Consider the use of permeable paving for street parking areas.

### TRAFFIC CALMING

- Particularly in residential areas, encourage the implementation of traffic calming measures such as speed humps, traffic circles, and chicanes.

### STREET TREES

- Use a diverse palette of climate-appropriate, and when possible, native, trees throughout the Diridon Station Area;
- Create a street tree plan that ensures an unified street tree design throughout the station area's three districts;
- Allow for a more varied palette of trees within residential areas

### RAIL ROAD TRACKS AT GRADE

- Provide attractive and protective fencing along rail road tracks;
- Do not allow chain link fencing;
- Provide plantings along public side of railroad tracks.



*Provide wider sidewalks with a rich tree canopy on key pedestrian streets.*



*Residential areas should have a green character and include planting strips and vegetated setbacks.*



*Permeable paving for street parking strips reduces rain water run-off.*



*Fences can include decorative elements or public art.*

## 4. FINAL PLAN MAXIMUM BUILD-OUT

## 4.1 Areas, heights and massing

### METHODOLOGY & BUILD-OUT CALCULATIONS

The 'test-fit' Diridon Station Area Plan (DSAP) - DSAP - Final Plan Report described in section 2 of this report has been calculated for a maximum possible theoretical build-out. This assumes that all development illustrated on the 'test-fit' plan could be completed and occupied by 2035. Although the eventual build-out will probably differ from the 'test-fit' plan, it has been used as a basis for establishing the maximum theoretical possible development. These calculations and projections have been carried forward for analysis during the environmental clearance phase of the project, to allow for the greatest possible flexibility in encouraging and approving future development proposals which are consistent with the goals of the Final Station Area Plan.

A block diagram with proposed building sizes and heights was used as a basis for areas, units and parking count calculations. Figures 4-1-1, 4-1-3 and 4-1-5 show the block sizes, building footprints and building heights for each of the primary subareas; north, central and south. Block sizes allow for the suggested street typologies shown in Figures 3-3-1 to 3-3-4.

Building areas were calculated and summarized by project sub-area (A through G) and these were tabulated in the maximum build-out matrices. Figures 4-1-2, 4-1-4 and 4-1-6 show the maximum build out for each of the three primary subareas and Figure 4-1-7 is a general summary for the entire project.

FIGURE 4-1-1 : NORTHERN ZONE - BUILDING HEIGHTS

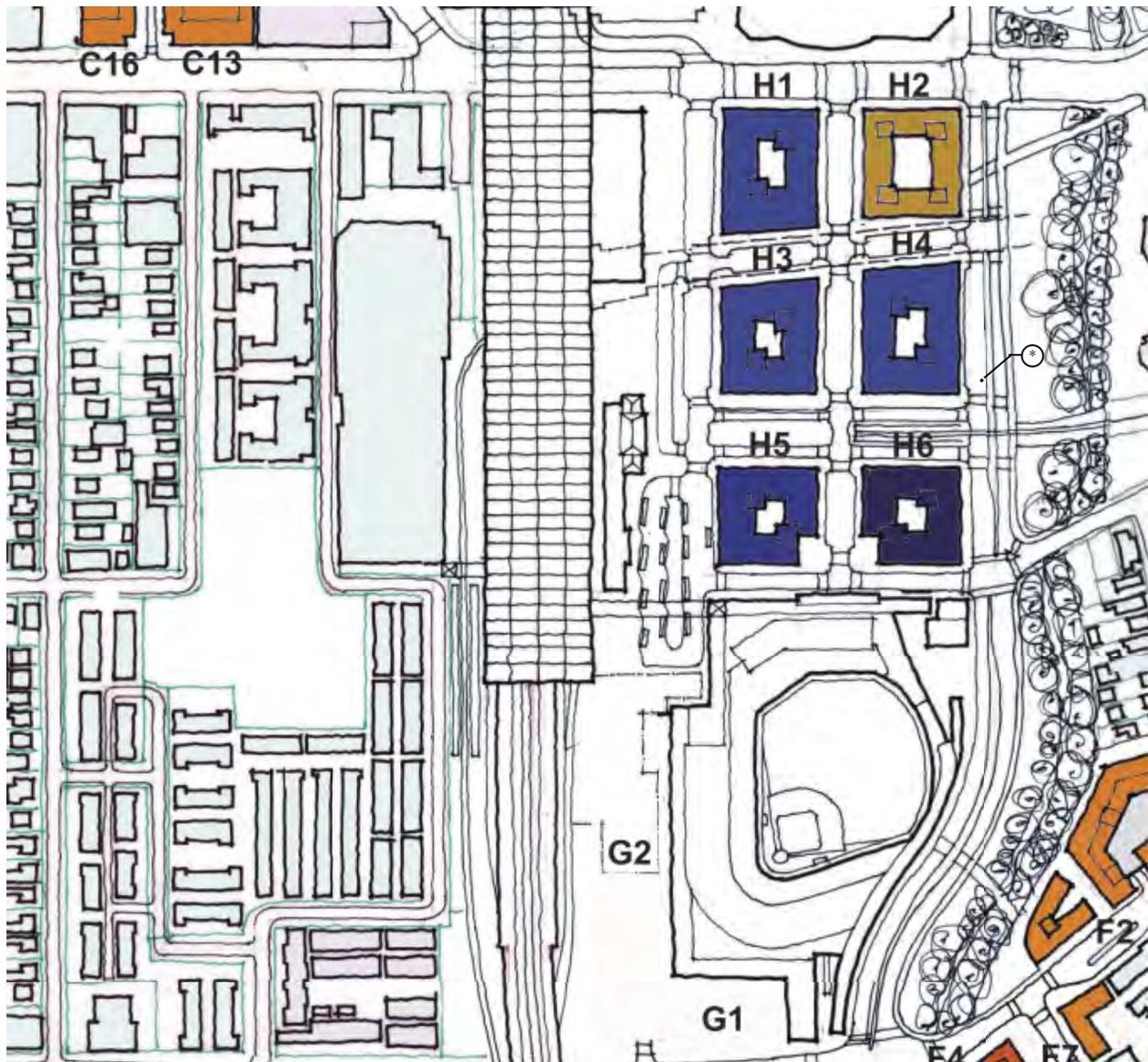


RESIDENTIAL	COMMERCIAL	PARKING	HOTEL
<span style="display:inline-block; width:15px; height:15px; background-color:yellow;"></span> 2 LEVELS	<span style="display:inline-block; width:15px; height:15px; background-color:lightblue;"></span> 4 LEVELS	<span style="display:inline-block; width:15px; height:15px; background-color:lightgrey;"></span> 2 LEVELS	<span style="display:inline-block; width:15px; height:15px; background-color:gold;"></span> 9 LEVELS
<span style="display:inline-block; width:15px; height:15px; background-color:orange;"></span> 3 LEVELS	<span style="display:inline-block; width:15px; height:15px; background-color:blue;"></span> 5 LEVELS	<span style="display:inline-block; width:15px; height:15px; background-color:grey;"></span> 3 LEVELS	<span style="display:inline-block; width:15px; height:15px; background-color:darkgold;"></span> 10 LEVELS
<span style="display:inline-block; width:15px; height:15px; background-color:darkorange;"></span> 4 LEVELS	<span style="display:inline-block; width:15px; height:15px; background-color:darkblue;"></span> 6 LEVELS	<span style="display:inline-block; width:15px; height:15px; background-color:darkgrey;"></span> 5 LEVELS	<span style="display:inline-block; width:15px; height:15px; background-color:darkbrown;"></span> 11 LEVELS
<span style="display:inline-block; width:15px; height:15px; background-color:firebrick;"></span> 5 LEVELS	<span style="display:inline-block; width:15px; height:15px; background-color:navy;"></span> 7 LEVELS	<span style="display:inline-block; width:15px; height:15px; background-color:black;"></span> 6 LEVELS	<b>OTHER</b>
<span style="display:inline-block; width:15px; height:15px; background-color:darkred;"></span> 6 LEVELS	<span style="display:inline-block; width:15px; height:15px; background-color:darkslateblue;"></span> 8 LEVELS	<span style="display:inline-block; width:15px; height:15px; background-color:darkgrey;"></span> 7 LEVELS	<span style="display:inline-block; width:15px; height:15px; border:1px solid black;"></span> EXISTING
<span style="display:inline-block; width:15px; height:15px; background-color:maroon;"></span> 8 LEVELS	<span style="display:inline-block; width:15px; height:15px; background-color:indigo;"></span> 9 LEVELS		<span style="display:inline-block; width:15px; height:15px; border:1px solid grey;"></span> APPROVED
<span style="display:inline-block; width:15px; height:15px; background-color:darkred;"></span> 10 LEVELS			

FIGURE 4-1-2 : NORTHERN ZONE - MAXIMUM BUILD-OUT TOTALS BY BLOCK

BLOCK	# LEVELS	USES				PARKING				TOTAL # spaces
		Retail sq. ft.	Office/R+D sq. ft.	Hotel # rooms	Residential # units	Structure # spaces	Podium # spaces	Off-street at-grade # spaces	Underground # spaces	
A1	7	15,500	94,500							
A2	7	10,800	107,500						560	
A3	6	14,000	70,000						inc in A2	
A4	6		134,400						inc in A2	
A5	6		170,000							
A6	3					900 (not included in total)				
A7	9					900			inc in A2	
<b>Subtotal Zone A</b>		<b>40,300</b>	<b>576,400</b>	<b>0</b>	<b>0</b>	<b>900</b>	<b>0</b>	<b>0</b>	<b>560</b>	<b>1,460</b>
B1	6		150,000						1050	
B2	6		78,000						inc in B1	
B3	6		72,000						inc in B1	
B4	6		147,000						inc in B1	
B5	6					600			inc in B1	
B6	6		156,000						inc in B1	
B7	6					620			inc in B1	
B8	6		147,000						inc in B1	
B9	6		63,000						inc in B1	
B10	6		90,000						inc in B1	
B11	6		108,000							
B12	6		93,000							
B13	6		65,000							
B14	5		80,000							
B15	5		75,000							
B16	5		110,000						460	
B17	5		52,500						inc in B16	
B18	5		105,000						inc in B16	
B19	5		62,500						inc in B16	
B20	5					625			inc in B16	
<b>Subtotal Zone B</b>		<b>0</b>	<b>1,634,000</b>	<b>0</b>	<b>0</b>	<b>1,845</b>	<b>0</b>	<b>0</b>	<b>1,510</b>	<b>3,355</b>
C1	4	18,000	136,000							
C2	4		90,000							
C3	9					765				
C4	4		82,000							
C5	4		81,000							
C6	4		90,000							
C7	8					680				
C8	4		81,000							
C9	4		81,000							
C10	4		80,000							
C11	5					350				
C12	4		81,000							
C13	4	14,000			20			50		
C14	4				32			32		
C15	4				16					
C16	4	8,800			15					
C17	4				30			30		
C18	4				50			52		
C19	4				30			34		
C20	4				30			24		
<b>Subtotal Zone C</b>		<b>40,800</b>	<b>802,000</b>	<b>0</b>	<b>223</b>	<b>1,795</b>	<b>0</b>	<b>222</b>	<b>0</b>	<b>2,017</b>
<b>SUBTOTAL NORTH ZONE</b>		<b>81,100</b>	<b>3,012,400</b>	<b>0</b>	<b>223</b>	<b>4,540</b>	<b>0</b>	<b>222</b>	<b>2,070</b>	<b>6,832</b>

FIGURE 4-1-3 : CENTRAL ZONE - BUILDING HEIGHTS



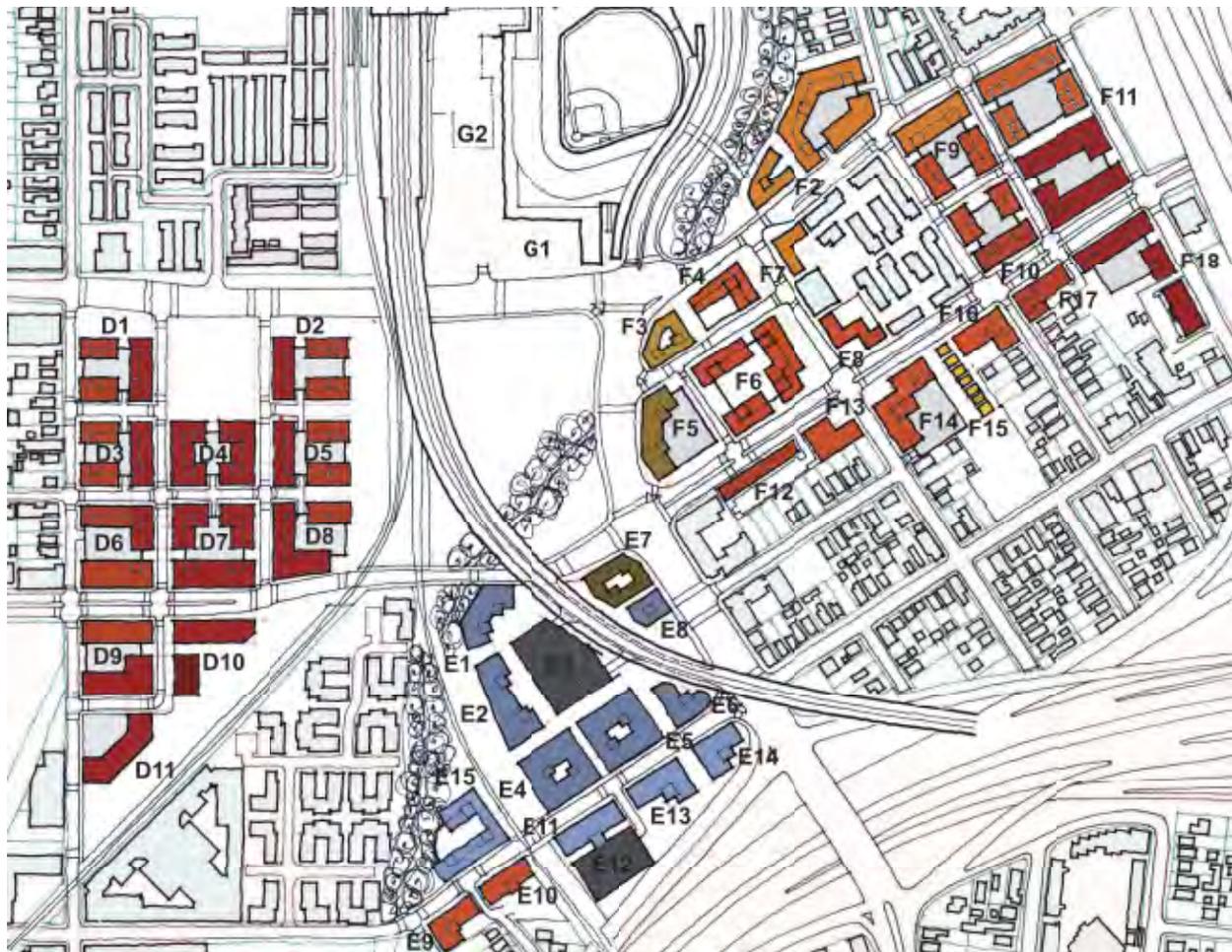
\* No median on Autumn Parkway from Park Ave. to W. Santa

RESIDENTIAL	COMMERCIAL	PARKING	HOTEL
2 LEVELS	4 LEVELS	2 LEVELS	9 LEVELS
3 LEVELS	5 LEVELS	3 LEVELS	10 LEVELS
4 LEVELS	6 LEVELS	5 LEVELS	11 LEVELS
5 LEVELS	7 LEVELS	6 LEVELS	<b>OTHER</b>
6 LEVELS	8 LEVELS	7 LEVELS	EXISTING
8 LEVELS	9 LEVELS		APPROVED
10 LEVELS			

FIGURE 4-1-4 : CENTRAL ZONE - MAXIMUM BUILD-OUT TOTALS BY BLOCK

BLOCK	# LEVELS	USES				PARKING				TOTAL # spaces
		Retail sq. ft.	Office/R+D sq. ft.	Hotel # rooms	Residential # units	Structure # spaces	Podium # spaces	Off-street at-grade # spaces	Underground # spaces	
G1 G2										
<b>Subtotal Zone G</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
H1	7	25,000	210,000						315	
H2	7	25,000		250					inc. in H1	
H3	7	25,000	216,000						330	
H4	7	25,000	210,000						inc. in H3	
H5	9	20,000	240,000						275	
H6	8	20,000	270,000						inc. in H5	
<b>Subtotal Zone H</b>		<b>140,000</b>	<b>1,146,000</b>	<b>250</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>920</b>	<b>920</b>
<b>SUBTOTAL CENTRAL ZONE</b>		<b>140,000</b>	<b>1,146,000</b>	<b>250</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>920</b>	<b>920</b>

FIGURE 4-1-5 : SOUTHERN ZONE - BUILDING HEIGHTS



RESIDENTIAL	COMMERCIAL	PARKING	HOTEL
2 LEVELS	4 LEVELS	2 LEVELS	9 LEVELS
3 LEVELS	5 LEVELS	3 LEVELS	10 LEVELS
4 LEVELS	6 LEVELS	5 LEVELS	11 LEVELS
5 LEVELS	7 LEVELS	6 LEVELS	<b>OTHER</b>
6 LEVELS	8 LEVELS	7 LEVELS	EXISTING
8 LEVELS	9 LEVELS		APPROVED
10 LEVELS			

FIGURE 4-1-6 : SOUTHERN ZONE - MAXIMUM BUILD-OUT TOTALS BY BLOCK

BLOCK	# LEVELS	USES				PARKING				TOTAL # spaces
		Retail sq. ft.	Office/R+D sq. ft.	Hotel # rooms	Residential # units	Structure # spaces	Podium # spaces	Off-street at-grade # spaces	Underground # spaces	
D1	6,8				105		100	25		
D2	6,8				105		100	25		
D3	6,8				105		100	25		
D4	8				155		100	25		
D5	6,8				105		100	25		
D6	6,8	12,000			105		100	25		
D7	8	13,000			110		100	25		
D8	6,8	11,000			105		100	25		
D9	6,8	12,000			105		100	25		
D10	8,10	13,000			75		100	25		
D11	10				100					
<b>Subtotal Zone D</b>		<b>61,000</b>	<b>0</b>	<b>0</b>	<b>1,175</b>	<b>0</b>	<b>1,000</b>	<b>250</b>	<b>0</b>	<b>1,250</b>
E1	6		87,000							
E2	6		126,000			840				
E3	7									
E4	6		158,000							
E5	6		158,000							
E6	6		56,000							
E7	11	6,000		200						
E8	6	6,000	40,000							
E9	4				40			30		
E10	4				35			20		
E11	5		60,000							
E12	7					490				
E13	5		70,000							
E14	5		50,000							
E15	5				80		130			
<b>Subtotal Zone E</b>		<b>12,000</b>	<b>805,000</b>	<b>200</b>	<b>155</b>	<b>1,330</b>	<b>130</b>	<b>50</b>	<b>0</b>	<b>1,510</b>
F1										
F2	4	11,000			75		150			
F3	9	5,000		200						
F4	5			250	35		100			
F5	10	10,000					120			
F6	5,6	19,000			120		160			
F7	4				20					
F8	5	7,000			41		40			
F9	4,5				75		120			
F10	5,6	10,000			60		100			
F11	5,8	15,000			270		340			
F12	6				38			46		
F13	5	8,000			32					
F14	5	12,000			48		120			
F15	3				7			7		
F16	5	9,000			30					
F17	6	9,000			30					
F18	8	15,000			154		100	35		
<b>Subtotal Zone F</b>		<b>130,000</b>	<b>0</b>	<b>450</b>	<b>1,035</b>	<b>0</b>	<b>1,350</b>	<b>88</b>	<b>0</b>	<b>1,438</b>
<b>SUBTOTAL SOUTH ZONE</b>		<b>203,000</b>	<b>805,000</b>	<b>650</b>	<b>2,365</b>	<b>1,330</b>	<b>2,480</b>	<b>388</b>	<b>0</b>	<b>4,198</b>

FIGURE 4-1-7 : SUMMARY MAXIMUM BUILD-OUT TOTALS

ZONE	MAXIMUM DEVELOPMENT				
	Commercial/R+D/Light Industrial (sq. ft.)	Retail/Restaurant (sq. ft.)	Residential (units)	Hotel (rooms)	Ballpark (seats)
<b>NORTH</b>					
A. Arena North	576,400	40,300	0	0	-
B. Julian North	1,634,000	0	0	0	-
C. Stockton Corridor	802,000	40,800	223	0	-
<b>SOUTH</b>					
D. Dupont / McEvoy	0	61,000	1,175	0	-
E. Royal / Auzeais	805,000	12,000	155	200	-
F. Park / San Carlos	0	130,000	1,035	450	-
<b>CENTRAL</b>					
G. Ball Park	0	0	0	0	32,000
H. Station East	1,146,000	140,000	0	250	
<b>TOTAL</b>	<b>4,963,400</b>	<b>424,100</b>	<b>2,588</b>	<b>900</b>	<b>32,000</b>

## ASSUMPTIONS AND EXCLUSIONS

The following assumptions have been made in calculating the areas for the maximum build-out:

1. 100% build out of all properties regardless of whether the parcel is City owned, private and underutilized, or private and fully utilized but an inappropriate use for the property.
2. Recently built projects and projects which have planning approval (but not yet built) were treated as 'existing to remain'.
3. Existing or proposed streets, parks, trails, plazas and other such public open spaces are not included in these calculations.
4. The 'test-fit' DSAP - Final Plan Report does not respect existing individual property lines but is organized and calculated on a block-by-block basis, which assumes the accumulation of individual parcels over time for efficient development.
5. The height limits used in the development of the test-fit plan are consistent with, and in most cases below, the height limits established in the Urban Design Section of this Plan. Building heights used in the test-fit plan are also below the maximum building heights established by Federal Aviation Administration (FAA) Part 77, as discussed below. In the southern zone building heights were set to respect the scale of the adjacent neighborhoods and the recommendations in relevant Strong Neighborhood Initiative (SNI) documents.
6. When calculating maximum building heights (and therefore numbers of occupied floors) below the airport flight path constraint, a buffer zone of 15-20 feet was included to allow for elevator shaft overruns, rooftop equipment, architectural treatment to parapets, roof lines etc. In some cases it would be possible to accommodate one additional floor

of occupied space below the flight path constraint and the urban design height limits of this Plan, if rooftop projections were kept to an absolute minimum, but that level of detailed design is beyond the scope of this study.

7. The average residential unit size is 1,000 gross square feet.
8. Typical floor-to-floor heights are:
 

Ground floor retail	18 ft
Prime office/R+D space	15 ft
Hotel rooms,	12 ft
Residential units	10 ft
Parking structures and podiums	11 ft
9. Station program areas as described in section 2.5 of this report are not included in the build-out matrices.
10. Parking ratios as defined in section 2.8 of this report were applied to all new development.
11. Underground parking was projected to be economically feasible only on commercial developments, only one level below grade due to the high water table and only in large 'podium'-type arrangements where multiple buildings can sit above one large underground parking level for maximum efficiency.
12. Parking for residential developments was generally proposed to be of the 'podium'-type, typically two levels above grade and wrapped by outward facing residential or ground floor retail units. In a few cases where block sizes were too small to accommodate an efficiently-sized parking podium, the parking demand is met by parking structures or podiums on adjacent blocks and/or small amounts of surface parking areas within the same block.
13. On-street parking is not included in the parking supply totals, as this is projected to be available to meet the demand for retail/restaurant uses in the general area, in accordance with

City policy for the downtown core.

14. Off-street parking is not provided for new retail/restaurant premises within the boundaries of the City-defined Downtown core as described in section 2.8 of this report.
15. Employment uses in northern and southern zones are projected to have the same parking ratio as general commercial office space.
16. The 'test-fit' plan has proposed future a typical building footprint for commercial blocks, with some variation according to location within the plan and the street grid which defines the block. The typical footprint is based on a building which is 200-250 ft wide by 120-150 feet deep, with a courtyard at the center to create a u-shaped building which is typically no wider than 60 feet across to allow natural cross-ventilation and natural lighting to most occupied spaces. This is merely a suggested building size and shape in terms of good passive solar design and effective contribution toward meeting the goals of San José's Green Vision. However, we recognize that the actual build-out of the DSAP - Final Plan Report will include many different building designs, shapes and sizes, which is to be encouraged to foster variety and a dynamic public realm. The statement made in Section 2 of this report should be reiterated; this 'test-fit' plan is only one of many ways of approaching the layout of buildings and uses within the Station Area and is primarily a means to calculate the maximum build-out potential of the Station Area rather than a prescriptive plan.
17. The total of 155 residential dwelling units, currently shown on parcels E-9, E-10, and E-15, could be located on any of several sites. Although shown and tabulated on these parcels, the residential units will "float" in the maximum build-out totals, and can be allocated at a future time to one or more sites by the City Council.

## OPPORTUNITY SITES

Figure 4-1-8 illustrates the project opportunity sites used for establishing the maximum development potential for the three 'test-fit' DSAP - DSAP - Final Plan Report. An earlier version of this diagram was included in the Existing Conditions Report (Figure 2-6) and this diagram had been developed further in conjunction with City and Agency staff during subsequent phases of the project.

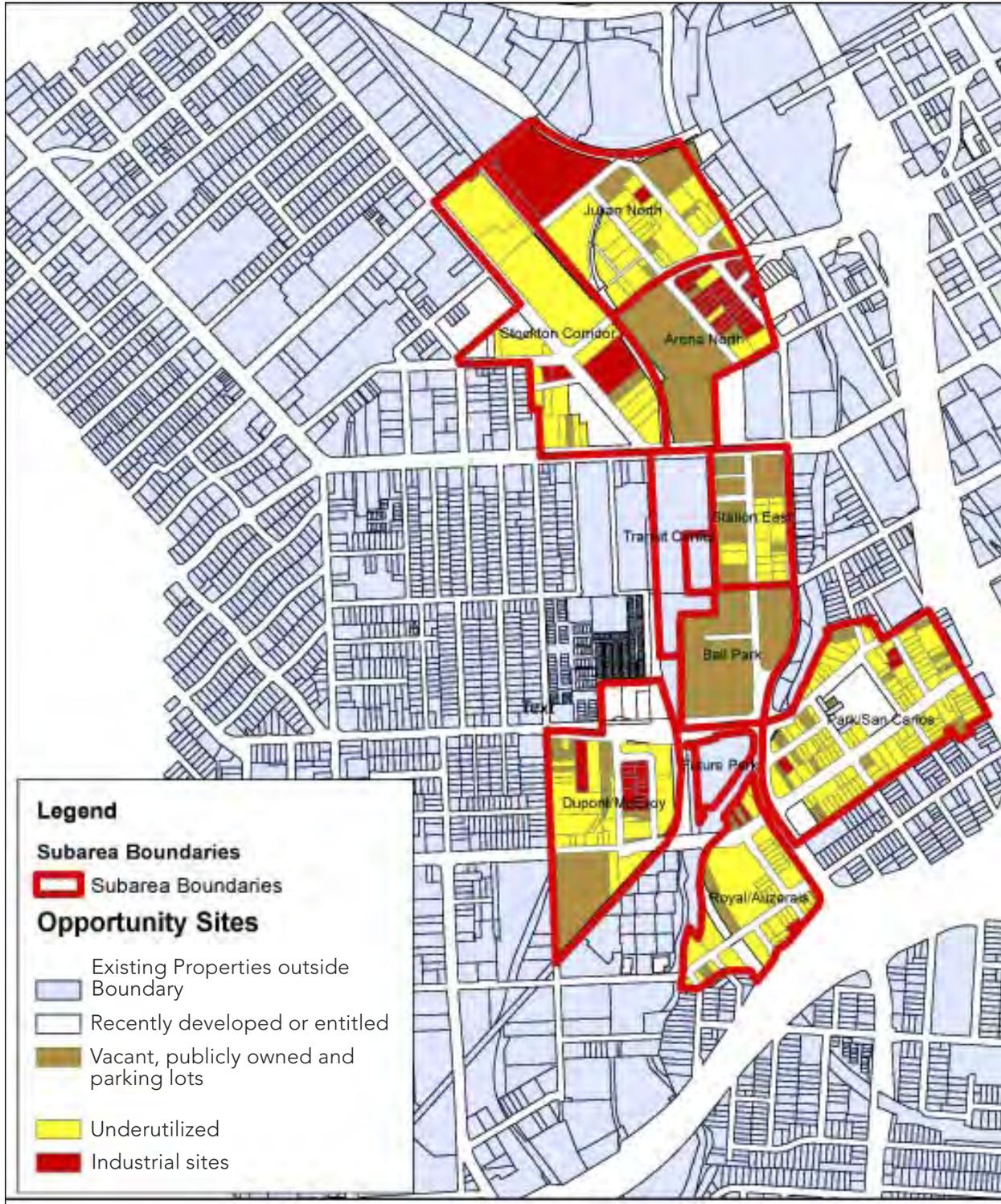
Essentially all land within the project boundary could be considered as opportunity sites, with the exception of recently constructed or recently entitled projects; these projects are shown in white on Figure 4-1-8. All other land, regardless of parcel size or ownership is included within the three 'tiers' of opportunity. Tier 1 represents vacant and/or publicly owned land or parking lots which could be developed soon, and tiers 2 and 3 represent underutilized and/or inappropriately used/zoned sites respectively which could also be developed over time. Maximum build-out assumes that redevelopment of all properties within the three tiers is possible. Inevitably, this would occur in multiple phases over time. It is likely that the properties in tier 1 would be developed first and that properties within tiers 2 and 3 could follow. At this stage it is not possible to predict which properties or accumulations of properties would turn over sooner than others. As the purpose of this report is to predict the maximum possible build-out for all properties within all tiers for the DSAP - Final Plan Report, the phasing of the development is not directly relevant to the calculation process.

## FLIGHT PATH RESTRICTIONS

The Diridon Station planning area is subject to height restrictions related to the Norman Y. Mineta International Airport. Building heights in the planning area are subject to the Federal Aviation Administration (FAA) regulations for navigable, obstruction free airspace (FAA Part 77). The City of San José also establishes aviation policies in the San José 2020 General Plan.

The Diridon Station planning area is subject to height and

FIGURE 4-1-8 : OPPORTUNITY SITES DIAGRAM

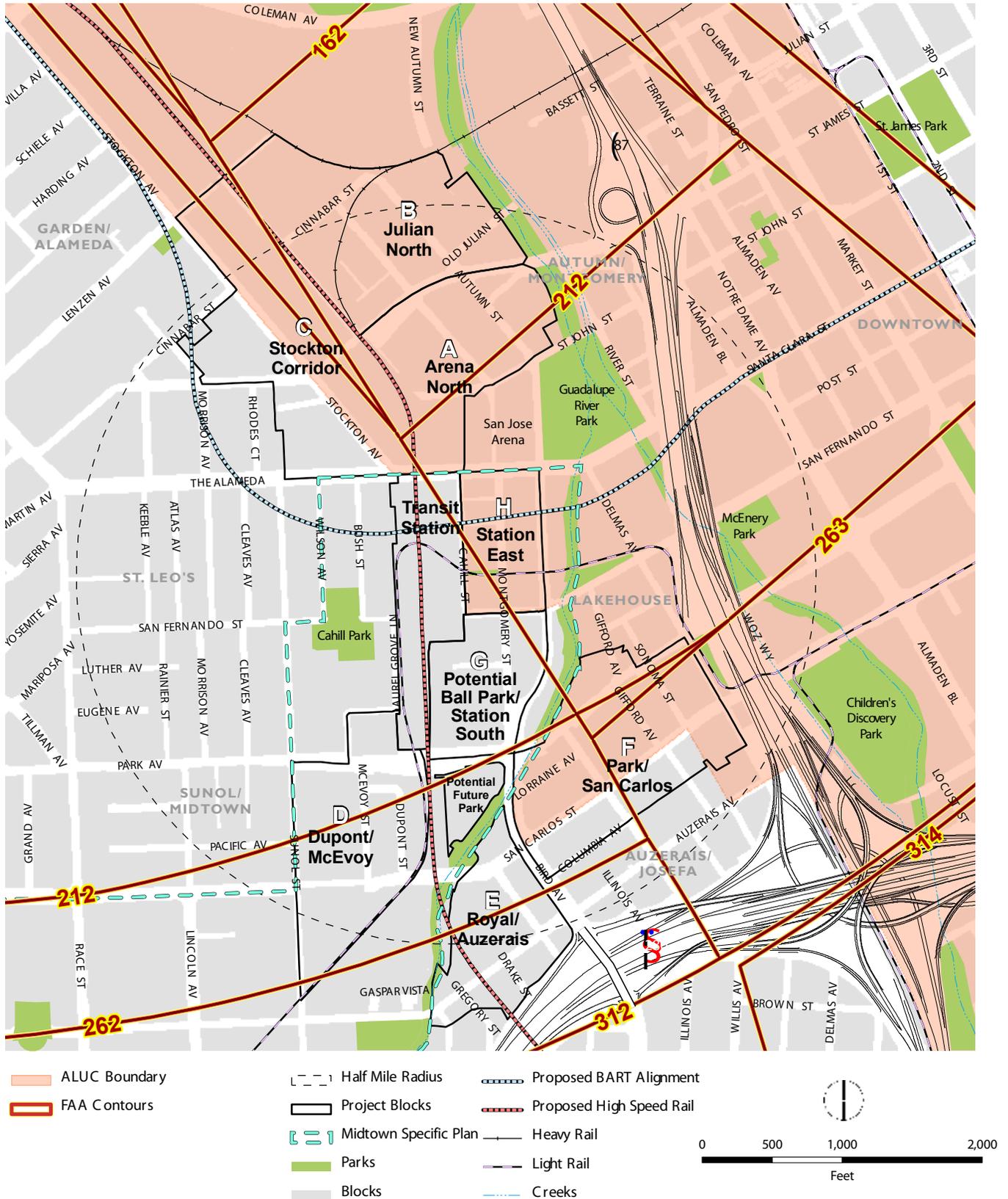


land use restrictions defined by the Santa Clara County Airport Land Use Commission (ALUC) and FAA. The ALUC maintains a Comprehensive Land Use Plan (CLUP) for Areas Surrounding Santa Clara County Airports (ALUCP) that provides for the orderly growth of the area surrounding the County's four airports, including the Mineta San José International Airport, which is required by law to be incorporated in the City's General Plan. The CLUP establishes provisions for the regulation of land use, safety, and noise insulation within areas adjacent to an airport to minimize the public's exposure to safety hazards and excessive noise. Each of these areas is called an Airport Influence Area, or AIA. Any proposed plan, project or land use change within the AIA must be submitted for review by the ALUC to determine whether it is consistent or inconsistent with the CLUP. The AIA for the Airport is mapped in Figure 4-1-9. Local agencies may overrule ALUC findings. In order to overrule a finding of inconsistency, a jurisdiction must hold a public hearing, make specific findings that the action proposed is consistent with the purposes of the ALUC statute, and approve the proposed action through a two-thirds vote of the local agency's governing body.

Approximately 109.5 acres of the Station planning area are located in the AIA referral area for the Airport. The planning area is also subject to height regulations administered by the FAA through the implementation of Federal Aviation Regulation (FAR) Part 77, "Objects Affecting Navigable Airspace." Part 77 sets forth standards and review requirements for the protection of airspace, including the height of potential structures, use of reflective surfaces and flashing lights, electronic interference, and other potential hazards to aircraft in flight. Any proposed structure or object within an extended zone defined by a set of imaginary surfaces radiating outward for several miles from an airport's runways or which stands at least 200 feet in height above ground must be submitted to the FAA for an aeronautical study to determine whether the specific structure would constitute a hazard to aircraft.

FAA contours for the Airport are mapped onto the ALUC boundary

FIGURE 4-1-9 : FAA AND ALUC FLIGHT PATH HEIGHT RESTRICTIONS MAP



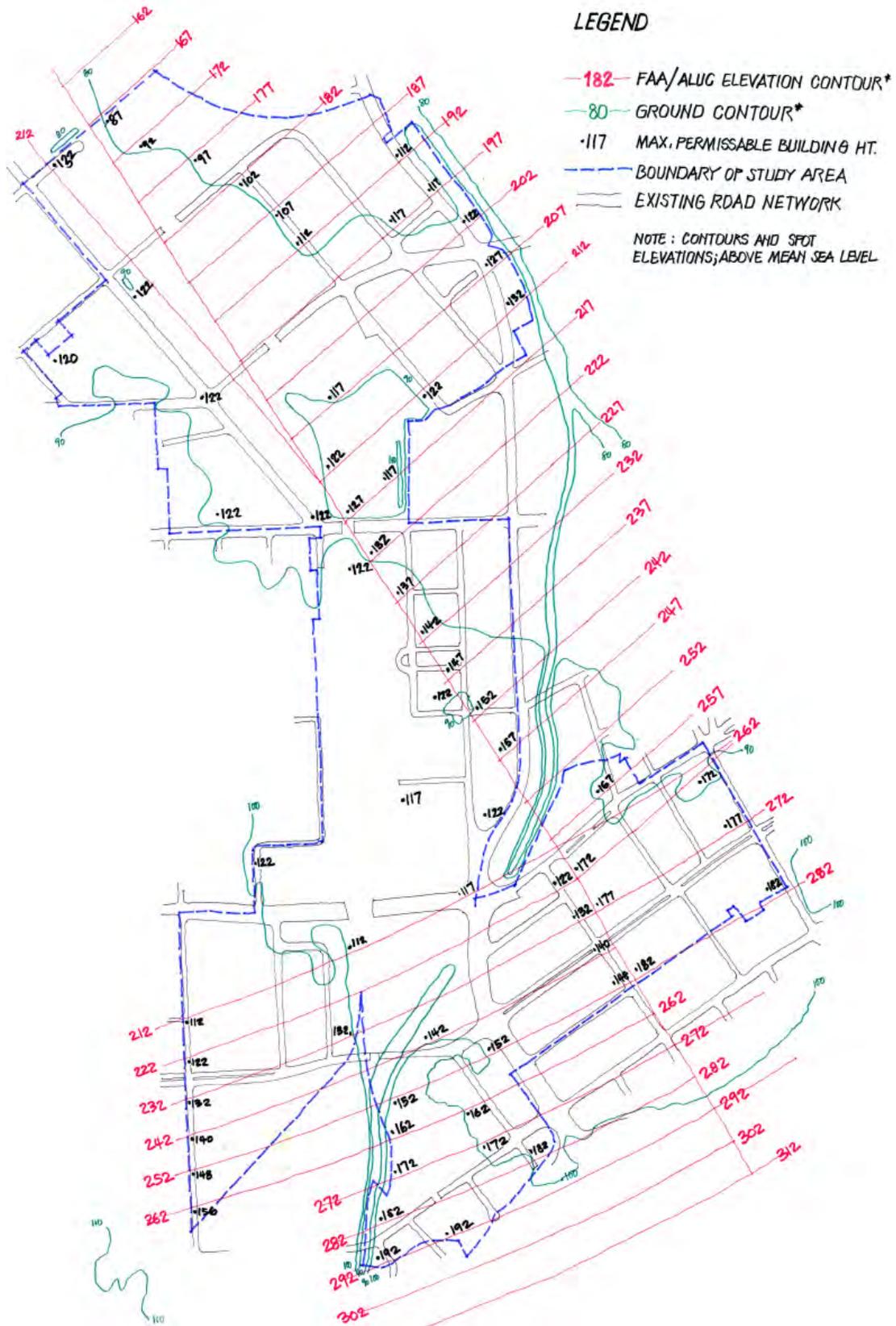
in Figure 4-1-9. The entire Station planning area is located within the FAA imaginary surface, with the most restrictive height limits in the northern portion as the imaginary surface descends northward towards the Airport.

Mapped onto the flight path data in figure 4-1-10 is the available information on ground topography, showing contours at 10 foot intervals. The difference between the ground plane and the flight path is the maximum possible height of buildings above existing ground level. These are indicated with spot elevations where the two sets of contours cross, as well as some interpolations of heights at intermediate locations throughout the project area. As the ground contours are at 10 foot intervals, it should be noted that there is a margin of error of plus or minus 5 feet on the interpolations.

### STRONG NEIGHBORHOOD INITIATIVE ZONES

Project sub-areas D (Dupont/McEvoy) and F (Park/San Carlos) both fall within existing SNI (Strong Neighborhood Initiative) boundary and both of these areas have had SNI Neighborhood Improvement Plans and/or Business Improvement Plans prepared in the recent past. Delmas Park SNI Neighborhood Revitalization Plan gives general guidance on the community's preferred land uses, and desirable massing/heights/densities of buildings. The proposed uses, block and street patterns and building heights indicated in the 'test-fit' DSAP - Final Plan Report are intended to be respectful of and consistent with the community's recommendations.

FIGURE 4-1-10 : FAA AND ALUC FLIGHT PATH HEIGHT RESTRICTIONS MAP



## 4.2 Parking supply

### METHODOLOGY

Parking demand calculations are based on projected future areas and uses of new development; parking ratios are consistent with the goals of the Envision San José 2040 General Plan.

Parking supply is calculated for each of the project sub-areas in an effort to match supply with maximum theoretical demand. The parking supply is achieved by identifying a combination of underground parking spaces below commercial properties, 'wrapped' podium parking within residential properties, some limited surface parking areas on small or awkwardly-shaped properties, and strategically located parking structures of various heights as required to meet demand. In planning the parking structures, every effort was made to locate them away from public vantage points by shielding them with other buildings.

### PROJECTED FUTURE PARKING SUPPLY

This section presents a concept plan for meeting the future parking needs for the Diridon Station area due to planned development, the Arena, and planned transit services. Based on comments presented in Section 2.8, it is important to emphasize that this preliminary concept plan is subject to change as development occurs in the Diridon Station area.

Parking supply includes the projected future off-street parking development within the station area. These developments include a variety of new surface, structured, and underground parking facilities. On-street parking supply was not included in the overall supply totals; it exists to serve short-term needs of retail and restaurant uses in the study area.

Using the parking supply numbers shown in Figures 4-1-2, 4-1-4 and 4-1-6 for the northern, central and southern sub-areas, the

total development based parking supply within the 'test-fit' plan in the DSAP Final Plan Report is 11,950 parking spaces. Of this total approximately 8,960 spaces will be located in off-street surface lots and structured parking garages and the remaining 2,990 spaces will be provided in underground parking facilities.

Using the parking demand calculations shown in Figure 2-8-1, the total predicted development based peak demand is 9,127 spaces. When the demand is subtracted from the development based supply of 11,950 spaces, the surplus is 2,823 spaces.

Development based supply	11,950 spaces
Development based demand	9,127 spaces
Development based surplus	2,823 spaces

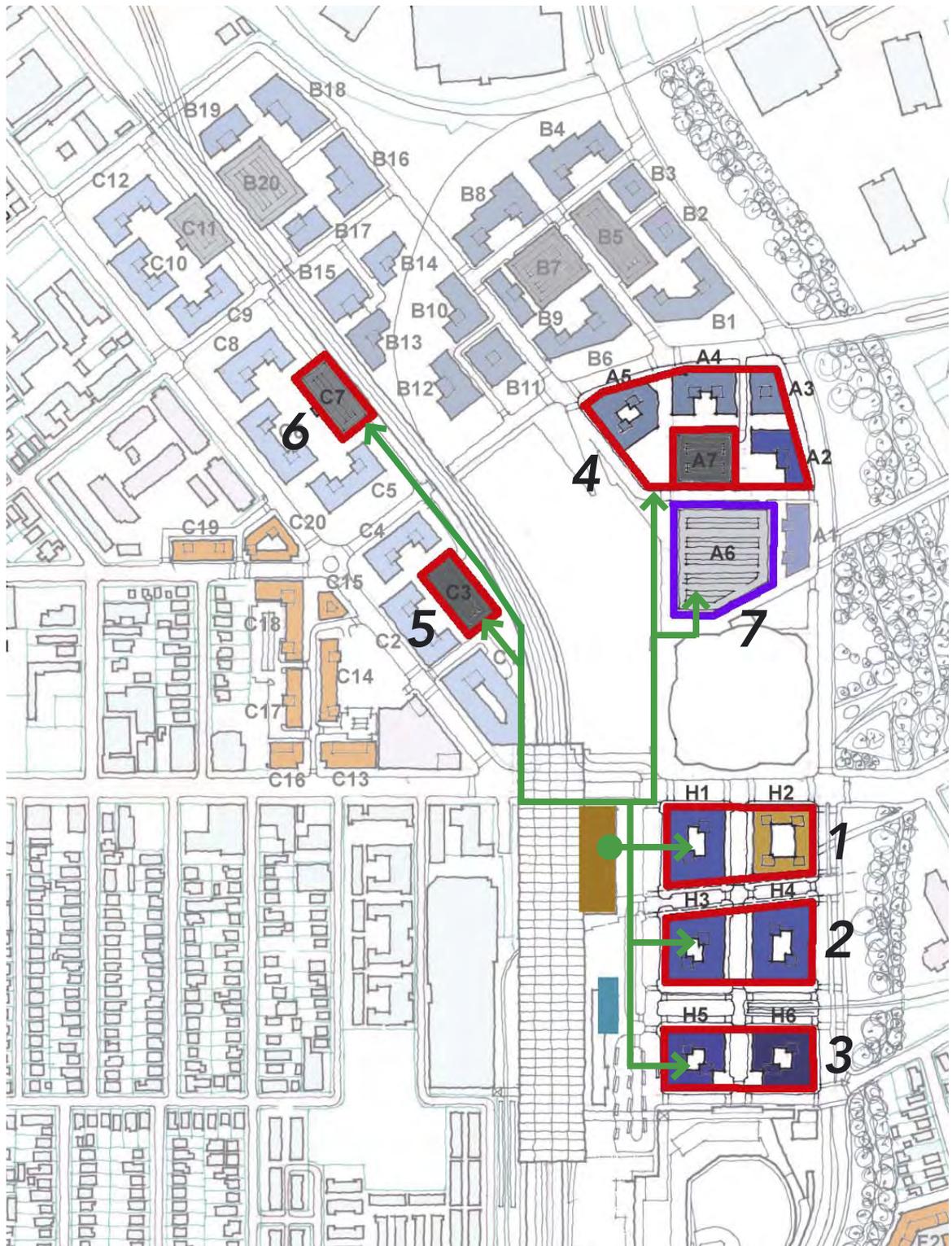
Using the cumulative transit parking demand estimated in Figure 2-8-4, it can be seen that the total number of spaces required to satisfy the needs of all transit operators is in a range of 1,353 to 2,213 spaces, depending on actual mode-share shift achieved over time.

To meet this demand, the 'test-fit' plan in the DSAP Final Plan Report proposes two categories of parking supply within the Station Area.

1. *Shared use of the portion of the surplus development based parking supply which falls within a half mile radius of the station terminal.*
2. *Shared use of a new parking structure with at least 900 spaces located immediately to the north of the San José Arena.*

Figure 4-2-1 indicates the parking facilities within the 'test-fit' plan of the DSAP Final Plan Report, which fall within the above two categories.

FIGURE 4-2-1 : PARKING SUPPLY LOCATIONS



### **1. UNDERGROUND PARKING BELOW BLOCKS H1 AND H2**

The capacity of two levels of below grade parking supply on the two blocks is 315 spaces. Using the parking ratios shown in Figure 2-8-1, and the development totals for the buildings above street level, the total demand is for 148 spaces. Thus this block has a surplus capacity of 167 parking spaces.

This parking supply is within 200 feet of the station, less than a one minute walk.

### **2. UNDERGROUND PARKING BELOW BLOCKS H3 AND H4**

The capacity of two levels of below grade parking supply is 330 spaces. Using the parking ratios shown in Figure 2-8-1, and the development totals for the buildings above street level, the total demand is for 200 spaces. Thus this block has a surplus capacity of 130 parking spaces.

This parking supply is within 550 feet of the station. Using a typical walking speed of three miles per hour, this is a little more than a two minute walk.

### **3. UNDERGROUND PARKING BELOW BLOCKS H5 AND H6**

The capacity of two levels of below grade parking supply is 275 spaces. Using the parking ratios shown in Figure 2-8-1, and the development totals for the buildings above street level, the total demand is for 238 spaces. Thus this block has a surplus capacity of 37 parking spaces.

This parking supply is within 900 feet of the station. Using a typical walking speed of three miles per hour, this is about a three and a half minute walk.

#### **4. UNDERGROUND PARKING BELOW BLOCKS A2, A3, A4, A5 AND PARKING STRUCTURE A7**

The capacity of the below grade parking supply is 560 spaces. If the above ground parking structure A7 is built to the maximum height consistent with the design guidelines (9 levels) this would provide a parking supply of 900 spaces. Thus the total supply in this sub-area is 1,460 spaces.

These parking facilities are intended to meet the combined demand of development on blocks A1 to A5. Using the parking ratios shown in Figure 2-8-1, and the development totals for these blocks, the total demand is 931 spaces. Thus this sub-area has a surplus capacity of 529 parking spaces.

This parking supply is within 1,350 feet of the station. Using a typical walking speed of three miles per hour, this is a little more than a five minute walk.

#### **5. PARKING STRUCTURE C3**

If the above ground parking structure C3 is built to the maximum height consistent with the design guidelines (9 levels) this would provide a parking supply of 765 spaces.

This parking facility is intended to meet the combined demand of development on blocks C1, C2 and C4. Using the parking ratios shown in Figure 2-8-1, and the development totals for these blocks, the total demand is 498 spaces. Thus this structure has a surplus capacity of 267 parking spaces.

This parking supply is within 1,050 feet of the station. Using a typical walking speed of three miles per hour, this is about a four minute walk.

## 6. PARKING STRUCTURE C7

If the above ground parking structure C7 is built to the maximum height consistent with the design guidelines (8 levels) this would provide a parking supply of 680 spaces.

This parking facility is intended to meet the combined demand of blocks C5, C6 and C8. Using the parking ratios shown in Figure 2-8-1, and the development totals for these blocks, the total demand is 407 spaces. Thus this structure has a surplus capacity of 273 parking spaces.

This parking supply is within 1,750 feet of the station. Using a typical walking speed of three miles per hour, this is about a six and a half minute walk.

## 7. PARKING STRUCTURE A6

San José Arena and the City of San José have entered into an agreement to provide additional on-site parking in the area located northeast of St. John Street and Montgomery Street. The 'test-fit' plan of the DSAP shows a multi-level structure with at least 900 spaces. The agreement also states that the additional on-site parking will be made available to the public when not in use for San José Arena events, and, San José Arena events usually occur outside of regular commute hours. Thus it is reasonable to assume that a portion of these spaces will be available for transit patrons on a regular basis. The range of spaces required to meet the projected transit demand is discussed in the next section. A plan will be developed to ensure that strategies are in place to make spaces available for San José Arena patrons when needed. On about 85 weekdays per year, other users would have to vacate this parking structure by 6:00 pm in order to accommodate San José Arena patrons.

The A6 parking structure is within 950 feet of the Station. Using a typical walking speed of four miles per hour, this is a little more than a three and a half minute walk.

## SUMMARY

Of the total development based surplus parking supply, the following surplus is located within a half mile radius and within a six and a half minute walk from the station:

1. Blocks H1 H2	167 spaces
2. Blocks H3 H4	130 spaces
3. Blocks H5 H6	37 spaces
4. Blocks A1 - A5	529 spaces
5. Block C3	267 spaces
6. Block C7	273 spaces
Subtotal	1,403 spaces

The combined transit based demand has been shown to be within a range of 1,353 to 2,213 spaces (Figure 2-8-4). Thus it can be seen that the development based surplus described above will satisfy the demand at the lower end of this range. In the worst case scenario, at the upper end of the range, there is a deficit of 810 spaces. In this circumstance, the transit based demand could be accommodated in a future planned parking structure, located northeast of St. John Street and Montgomery Street with at least 900 spaces.

### *San José Arena Supply*

The San José Arena is preserving their existing 1,424 space parking lot and has future plans with the City of San José to expand their on-site parking in the area northeast of St. John Street and Montgomery Street with at least 900 spaces. Both facilities will be open to the public for parking during non-game/non-event hours. San José Arena Management will manage the parking facilities and will have the lease as long as they are the tenant on the San José Arena site. It should be noted that the San José Arena supply is not currently included in supply calculations for the Diridon Station Area.

In theory, at the lower end of the range, San José Arena parking structure spaces are not required to meet demand. At the upper end of the range, as much as 89% will be required to meet demand. In all likelihood the actual demand will fall somewhere in between, as the predicted mode-shifts occur gradually over time.

Further studies will be required to analyze the rate at which transit patrons arrive to collect their vehicles in the afternoon and evening in relation to the rate at which San José Arena customers arrive to park their vehicles in advance of evening events. The goal is to ensure that the transition from one type of patronage to the other is efficient and convenient for all users.

It also should be noted that demand for parking spaces within the San José Arena parking structure may be a little higher than predicted, as these spaces are closer to the station than some of the development based surplus described above, and some patrons may prefer to park as close as possible. This aspect of supply and demand can be partially controlled with pricing strategies. Parking ordinance revisions and pricing strategies are beyond the scope of this report, but will be explored and developed as a next step in the planning process for the Diridon Station Area.

#### ***Allocation of transit parking spaces***

Furthermore, the geographical distribution of parking spaces and their allocation to individual transit operators will also require further detailed study in subsequent planning projects for the Station Area and beyond. For example, Caltrain has indicated a preference that their parking spaces be located within a five minute walk from the station. Their preference would be for Caltrain patron parking to be located below Blocks H1 to H6, which would accommodate the low to mid range of the Caltrain parking demand projections within a three and a half minute walk of the station. To satisfy the demand at the higher end of the

parking demand projection (1,200 spaces, Figure 2-8-3), Caltrain's preference would be to utilize the surplus spaces in Block A6, a three and a half minute walk from the station. These seven blocks would satisfy maximum projected Caltrain parking demands within a five minute walk from the station.

## 4.3 Population predictions

### EXISTING POPULATION

Using figures provided by The City of San José, the existing population (i.e. residents, employees and hotel guests) within the boundaries of the station area plan are;

Residents	1,428 people
Employment uses	1,680 people*
<b>Total</b>	<b>3108 people</b>

\*Note: Average employment totals based on EDD ES202 data for 2009

### ESTIMATED NEW POPULATION

Using the maximum build-out development totals in section 4.1 and applying the following ratios agreed with City staff, the eventual total population for the same area can be estimated.

#### RATIOS

To estimate the new total population in the Station Area, the following assumptions were made:

- Employment uses - general commercial and light industrial - 250 sq. ft per person
- Employment uses - retail and restaurant - 400 sq. ft per person
- Employment uses - hotels - 700 sq. ft per person
- Hotel guests - assume typical San José 57% occupancy rate
- Residential units - market rate housing (85% of total number of units) - 2 people per unit with typical San José 4% vacancy rate

- Residential units - affordable housing (15% of total number of units) - 2.7 people per unit with typical San José 4% vacancy rate

### ESTIMATED POPULATION

Residents - market rate	4,400 people
Residents - affordable	1,050 people
Employment - general commercial	19,850 people
Employment - retail/restaurant	1,060 people
Employment - hotels	700 people
Hotel guests	510 people

**Total** **27,570 people**

This represents an almost nine-fold increase in non-transient population and is expected to make a significant difference to the proportion of transit patrons who live or work within walking or cycling distance of the station.

Non-transient excludes commuters, customers, diners, visitors and San José Arena/Ballpark patrons.

## 5. FINAL PLAN NEXT STEPS



## 5.1 CEQA and environmental clearance

The 'test-fit' Diridon Station Area Plan (DSAP) - DSAP - Final Plan Report as described in section 2 of this report will become the basis for the next phase of the project. Using the maximum theoretical build-out of uses, areas and parking supply as described in section 4, the consultant team will prepare an Environmental Impact Report (EIR) in accordance with the requirements of the California Environmental Quality Act (CEQA) and the City of San José as lead agency.

The program level EIR will be commensurate with the level of detail provided in this report and will provide project-level clearance for as many issues as possible, including air quality, geology, public facilities and services, biological resources, global climate change, energy, utilities and service systems. Other issues that are considered to be more property-specific will be analyzed at a program level, such that environmental review for future development projects could be tiered off the Diridon Station Area Plan EIR when these projects come forward. This will allow these more detailed reports to be prepared as and when properties are redeveloped in accordance with the goals of the DSAP - Final Plan Report, while at the same time allowing for streamlining by avoiding the need to re-analyze many subject areas.

## 5.2 Key planning amendments

Zoning changes may be undertaken by The City of San José following the completion of the Diridon Station Area Plan. Given the complexity of zoning for and guiding the gradual redevelopment of multiple small properties over time within the context of the vision of the DSAP - Final Plan Report, it is likely that a combination of form-based and performance-based zoning will be most appropriate, especially with respect to the desire to synergistically link the public realm to the private realm.



# APPENDIX A: PUBLIC WORKSHOP #3



## A.1 Introduction

The third community workshop for the Diridon Station Area Plan was held on 7 August 2010, at San José City Hall. Over 30 people attended the two hour event.

The purpose of this workshop was to provide community members with the opportunity to comment on the ideas to be included in the DSAP - Final Plan Report for the Station Area. The workshop was held at the midpoint of the development of the DSAP - Final Plan Report and provided the planning team with the opportunity to present evolving ideas to the community and receive focused input on key topics.

The workshop was structured to provide an interactive setting, where community members could participate in group discussions of key ideas. Participants were seated around six large tables, which served as the setting for the group discussions. Following the individual group discussions, workshop participants were invited to nominate a speaker to represent each group who then described their most important five or six topics or issues back to the larger audience.

Participants were also given an e-mail address as an option for sending any further thoughts and comments after the conclusion of the workshop. Four such comments were received and are summarized in section 4 of this report.

- Overview. The presentation began with an overview of the planning process, and initial feedback from the first two community workshops. The resulting 'emerging themes' were reiterated. This was followed by an introduction to the draft DSAP - Final Plan Report ideas, including key land uses, urban design, place making and possible maximum development potential for the study area. This was supplemented with a more in-depth description of parking strategy, landscaping and public open space, access and connectivity, station program and concept and finally the proposed public art strategy.

- Small group discussion of draft DSAP - Final Plan Report. This exercise included facilitated group discussions of the draft DSAP - Final Plan Report ideas, using a list of four main topics for discussion as a guide as well as a printed land-use structure diagram and draft site plan showing buildings, spaces and places at each table. Participants were encouraged to mark up the drawings to help describe or supplement the written record of their group discussions.
- Report back. At the end of the individual group discussions, a representative from each group reported back to the larger audience on their concerns, issues and ideas for possible incorporation into the draft DSAP - Final Plan Report as it continues to be developed by the planning team. These reports concentrated on the key areas of interest or concern to each group, but all comments made and recorded during the group discussions are included in section 3 of this summary report.
- Follow up. E-mailed comments which were received from some participants who wished to emphasize or reiterate their concerns after the workshop are included in section 4 of this summary report.

## A.2 Key findings

While the workshop was organized into individual group discussions to solicit focused feedback on the draft DSAP - Final Plan Report ideas, there were several common issues and themes that arose during the discussions. These issues provide an overview of the feedback received and will serve as a guide for further development and refinement in the final stages of the Station Area Plan process.

### KEY FINDINGS

#### 1. LAND USE MIX

There was a general concern for how and where the proposed land uses would be located, mixed, and activated. There was widespread support for establishing a high-intensity mixed-use core around the station with a mix of retail, entertainment and employment uses. Some felt that having residential uses in the core would help activate the area, supporting transit, retail uses and the area's long-term viability. Regardless of mix, all agreed that the core should be active day and night to ensure safety and to solidify the area as a destination. Participants wanted to see 24/7 activity to complement the bigger events at the San José Arena and ballpark and were looking for a better definition of how this is to be achieved.

Some participants wanted to see more residential development in general and especially north of the station, fearing that the focus on predominantly commercial uses between Stockton Avenue and Autumn Parkway would create a business-park like environment which would be lifeless outside of normal office hours. One group was strongly in favor of locating more residential units close to the elevated rail lines in the Royal/Auzerais district where the DSAP - Final Plan Report currently shows a predominantly commercial mix.

Participants felt that the mix of uses should be planned carefully—both in finding the right balance between retail and office and employment uses, finding the right balance between retail use and the amount of residential development needed to support it and also in differentiating the retail offer within the Diridon Station Area from downtown and Santana Row. Big-box retail was generally not welcome anywhere within the study area.

There was much support for the strategy to reduce the projected future amount of parking supply and the proposed diversity of parking locations, but repeated criticism of what was generally perceived to be a wasted opportunity by not developing the existing San José Arena surface parking lot.

## **2. URBAN DESIGN, PLACE MAKING AND PUBLIC ART**

There was widespread support for establishing a strong character for the Diridon Station Area, particularly for the station itself and the surrounding core.

There was desire for maintaining an active public realm both within the station core area, as well as throughout the Station Area. This activity should be generated by ground floor uses like retail, entertainment, and public plazas. Participants reiterated the desire to ensure that there would be no “dead zones”, particularly in the northern zone generally and in the central zone on non-event days.

Several groups expressed a desire to see more ground floor retail and restaurant uses along Autumn Parkway overlooking the Los Gatos Creek to take advantage of this newly (to be) restored amenity, such as a river walk modeled on the one in San Antonio that balances nature and commercial vibrancy.

The lack of a prominent civic plaza was noted by several groups. The proposed public plaza between the new and existing terminals

was not considered to be either large enough or prominent enough to function as a major civic gathering space.

The few comments relating specifically to Art related to the preference for seeing the public art being integrated into the overall design, and becoming a key component of the Station Area's identity and character. The recently completed program of public art at the airport was cited as a good example of how to do this properly.

Several individual comments (and some follow-up comments received by e-mail) expressed concern for the state of Los Gatos Creek at the large traffic intersection at Park Avenue and the proposed realignment of Autumn Parkway. This was described as being one of the key recommendations of the Good Neighbor Committee and participants felt that the opportunity to restore the creek and connect the creek side trail in this area was not reflected in the draft DSAP - Final Plan Report, with too much emphasis still being placed on accommodating traffic movements at the expense of cyclists and pedestrians.

### **3. STATION DESIGN – CONCEPTS AND CONNECTIVITY**

There were surprisingly few comments which were specific to the station design or the proposed elevated high speed rail alignment. Comments were generally in favor of the 'iconic' approach to the location and design of the station. The importance of improving east-west connectivity across the tracks and minimizing the impact of the elevated structure at ground level was noted in the group presentations.

### **4. ACCESS AND CIRCULATION**

Ensuring that the DSAP - Final Plan Report is focused on transit and connectivity was a key concern for everyone. Bicycle and pedestrian linkages were of greatest concern, particularly the

provision of an extensive bicycle network with bike lanes, trails and commuter bicycle routes. The need to improve and supplement the existing east-west connections was mentioned in almost every break-out group and the need to ensure the safety of cyclists and pedestrians on busy thoroughfares was emphasized by one group.

Pedestrian connections were an important issue, especially to the surrounding neighborhoods and Downtown, where existing underpasses, the new elevated rail corridor and streets like Santa Clara Avenue need improvement.

## A.3 Group discussions

Each of the six groups was given a list of topics, arranged within the following four categories, for discussion, although it was not necessary for each group to address every topic. These were merely intended to serve as a set of 'prompts' to help the group focus on areas of particular interest.

### 1. LAND USES

- Kinds of land uses
- Mix of uses in each station area
- Density & character of uses
- Parking strategies
- Additional uses to consider
- Any other opportunities

### 2. URBAN DESIGN, PLACEMAKING & PUBLIC ART

- Primary urban design ideas
- Main places
- Parks & public open spaces
- Public art ideas
- Clarity, excitement & fun
- Any other thoughts

### 3. STATION DESIGN – CONCEPTS & CONNECTIVITY

- Iconic station design & spaces
- Existing & new stations
- Connections to surroundings
- Santa Clara Street and the station
- Buses, taxis, light rail & pedestrians
- Any other concepts

#### 4. ACCESS & CIRCULATION

- Major & minor vehicular routes
- Heavy rail & access to it
- Light rail, buses, shuttles & taxis
- Bicycles & pedestrians
- Signage, lighting, & orientation
- Any other points

The following text is a list of items recorded during the discussions at each table. The bullet points which are highlighted represent the key issues presented back to the larger group at the conclusion of the workshop.

#### TABLE 1

##### LAND USES

- Need to weave all of the areas together
- More commercial and active uses facing onto Los Gatos Creek. Make it a 'hopping' place.
- No 'super-blocks' shown – good. Create smaller blocks with buildings focused outwards onto public spaces, not inwardly focused.
- Soccer fields in the large community park are preferable to the ball field as shown. Local office staff will play soccer at lunchtimes.
- The proposed baseball park is not an appropriate land use in this location. It is a wasted opportunity.
- Taking the focus away from parking is OK. Shared parking can work. Underground parking is much better than above ground. Use the ground floor of buildings and open space for people, not for parking.
- Projected future parking supply may not be enough – people are going to drive into the area anyway.

## URBAN DESIGN, PLACEMAKING AND PUBLIC ART

- Tree-lined green connections – yes!
- Make Santa Clara Street a green connector.
- Create setbacks along Autumn Parkway for outdoor dining facing onto Los Gatos Creek.
- Some distances (e.g. in front of The Arena) are lacking interest. Need to create pedestrian interest along the route.
- Would like to see good set of strong design guidelines to ensure that future development is consistent with the plan, not a hodge-podge of individual schemes.

## STATION DESIGN - CONCEPTS AND CONNECTIVITY

- Connectivity east-west across the tracks is important, not just for station patrons but also for citizens traveling east-west.

## ACCESS AND CIRCULATION

- Good connections to downtown.
- Connections under SR-87 are critical to solve.
- The focus on transit is good.
- Bicycles should be accommodated on all streets, not just for recreational purposes but as an integral commuter transportation mode.

## TABLE 2

### LAND USES

- What happens if there is not a ballpark?
- Lack of park to parallel increase in residential.
- Where is the reference to the Good Neighbor Committee recommendations in the plan? There is a disconnect between

the new and existing commercial with the proposed new residential.

- Why are you converting residential to commercial uses on San Carlos?
- Auzerais is not appropriate for regional commercial uses. Currently there is lots of children and pedestrian activity. Why not concentrate more small retail?
- Regional commercial seems more appropriate than light industrial.
- How can this area become more 'engaging' at the times when there are no scheduled events at the San José Arena or the ballpark?
- Would like to see more live/work uses with a campus feel north of the station. Should include ground floor retail along Julian Street.
- Would like to see access to a possible train museum at Cinnabar Street.
- The opportunity to generate real sales tax will be in niche marketing which competes with internet purchases, e.g. Japan town, lifestyle retail.
- Don't want any big box retail in this area.
- How about nightclub uses on the second floor of buildings within the central zone?

#### **URBAN DESIGN, PLACEMAKING AND PUBLIC ART**

- Park connectivity.
- Art, architecture and landscape should reflect the history of the area, especially the agricultural history.
- Need to see visualizations of how this plan harmonizes with the recommendations of the Good Neighbor Committee.
- Central zone should have 24/7 activity, not just before and after events.

## ACCESS AND CIRCULATION

- Bicycle and trail connectivity
- Can Auzerais St. really become a bicycle route with existing typology and width?
- Ensure green east-west connections in the northern zone.
- Would like to see 'complete streets'.
- Ensure full bicycle access on all main transportation corridors such as Autumn Parkway.
- Respect all modes of travel. The bicycle and pedestrian proposals feel incomplete.
- Ensure that groups such as the Silicon Valley Bicycle Coalition (SVBC) are involved in the decision making process for street typologies and connectivity.
- Plan should show the new light rail station at Sunol Street.
- Reinforce the connections along Los Gatos Creek to the south of the study area.

## TABLE 3

### LAND USES

- The plan includes too few residential units and not enough mixed use. We need more mixed use with higher density residential included, especially in the northern zone and along Autumn Parkway. Medium density residential should only be shown in the Delmas district.
- The 'regional commercial' category should be better defined and should not allow for big box retail. We don't want 'freeway oriented' commercial.
- Provide less parking than shown. Allow for more satellite parking, e.g. at Alum Rock.
- The parking strategy refers to the 20%VMT reduction targets

within the 2040 General Plan update, but this figure should be the higher 40% VMT reduction also being discussed.

- Build over the non-toxic portions of the San José Arena surface parking lot.

### **URBAN DESIGN, PLACEMAKING AND PUBLIC ART**

- Do not waste space on medians – use the available space to accommodate all travel modes safely.
- Walls - e.g. around ballpark stadium and at Autumn Parkway. Balls from home runs at ballpark!
- Bring the World Cup to San José. Is there enough room for baseball and soccer facilities? Can soccer fields be accommodated at the Airport? At the ballpark?
- Some existing parks are not very good and the art within them is questionable.

### **STATION DESIGN - CONCEPTS AND CONNECTIVITY**

- The high speed rail tracks north of the station should swing to the east of the Caltrain tracks and avoid conflict with the Bellarmine High School property.

### **ACCESS AND CIRCULATION**

- Address safety issues for bicycles and pedestrians with respect to vehicles and buses, especially when BRT routes are introduced in the area. The plan needs more bike lanes, especially east-west routes. More grand boulevards for bicycles.
- Accommodate people who want to walk to work.

## TABLE 4

### LAND USES

- Concerned about the scale of development (noise and traffic impacts on neighborhoods, construction impacts and traffic pollution), although it seems about right for the future growth projections for San José.
- Concerned about the predominantly single use in the northern zone. This area will be 'dead' at night.
- Concerned about trade competition between the new station area and downtown.

### URBAN DESIGN, PLACEMAKING AND PUBLIC ART

- Make the parking areas more attractive, especially to the west of San José Arena.

### STATION DESIGN - CONCEPTS AND CONNECTIVITY

- Immediate neighbors would like to see lower scale new station design with compatibility of old and new.
- Transparency of new station is important.
- The positive aspect of the elevated high speed rail tracks is that they will provide views of the City.

### ACCESS AND CIRCULATION

- Open up Los Gatos Creek at the Park Avenue/Autumn Parkway intersection to allow the continuation of the creek side trail.
- Strengthen east-west connections for pedestrians and bicycles, especially to and from the station.
- Provide real-time electronic wayfinding and transit signage.

- Extend Basset Street to the West to make one more 'green finger'.
- Provide better linkages from the northern zone to the central station district.
- Integrate the station parking strategy with the downtown parking management plan and improve the east-west connections for access to parking.
- Make the intersections at Bird Avenue, Park Avenue and San Carlos Streets more bicycle and pedestrian friendly.

## TABLE 5

### LAND USES

- The ULI is currently studying sustainable high density development in the area.
- What is intensive business use? Maximize office development, but not campus style. Prefer to see more urban scale of development.
- Regional commercial classification is flexible – needs better definition.
- What about entertainment uses and destination retail?
- The plan is confusing with respect to retail uses.
- The mixed use in the core is too undefined. Need to show ground floor retail and clearer definition. Maximize the development in the core area.
- Unsure of land uses. Possible new station in southwest corner?
- The plan misses the opportunity to create a 24/7/365 active destination. The area is currently too event-dependent.
- There is lots of new retail compared to the amount of housing shown. There is not enough residential use to support the amount of retail shown.
- Tax revenue creating uses are needed.

- Question- Is there enough housing or not? Is there too much office? Can we have a better live/work balance?
- Maximize the development potential.

### **URBAN DESIGN, PLACEMAKING AND PUBLIC ART**

- Include the Silicon Valley Bicycle Coalition and the Newhall neighborhood association.
- The plan lacks the feeling of having a core. We don't get the feeling of retail in small buildings and do not see an appropriately fine-grained core.
- The Los Gatos Creek presents a 'river walk' opportunity.
- We need to face development toward the reclaimed water features and provide entertainment-based activity and a river walk. Preserve the environment.
- We need more eyes on the river and creek – currently feels unsafe.
- San José is a big city – start acting like one.
- The plan shows a good amount of open space. We like the large community park surrounded by mixed use.
- Tennis courts within the community park – do not make sense located across from the ballpark stadium. What would be a better fit?
- We need eyes on the parks.
- Public art proposals good, although it is not clear what kind of art would be located in the northern zone.
- The plan is lacking a good public plaza. Make more of the plaza opportunity at the new station terminal.

### **STATION DESIGN - CONCEPTS AND CONNECTIVITY**

- Station design is good so far. Old versus new, links to the past and bold and iconic all good.

- We need good design to prevent the elevated rail tracks becoming a barrier. Minimize the impact of the structure at ground level.

### **ACCESS AND CIRCULATION**

- The connections shown are primarily north-south. Need to address the barriers and work out better east-west connections.
- Require better connections within the new development, especially connections to downtown and bicycle connections. Show connections from the new development to the station.

### **TABLE 6**

### **LAND USES**

- Concerned about the commercial/light industrial uses shown east of Stockton Avenue directly across the street from single family residential uses. More concerned about massing and bulk of development than actual uses. Need sensitive height and mass transition.
- Balance the land uses with the opportunity to minimize noise in the neighborhoods.
- Could City provide structured parking on San José Arena surface parking lot? Maintain existing lease arrangements by providing equivalent spaces in parking structure. This is a 20 – 30 year plan which should look beyond the current situation and convert this property to structured parking and new development.
- Utilize the existing parking supply to the east of SR87 and improve connectivity for access to parking.
- Need to provide some parking for high speed rail to be successful.

## URBAN DESIGN, PLACEMAKING AND PUBLIC ART

- Concerned about the treatment of Los Gatos Creek at Autumn Parkway. Be consistent with the Good Neighbor Committee recommendations to keep it in its natural state.
- Restore Los Gatos Creek to its natural state at the Park Avenue/Autumn Parkway intersection.
- Ensure a scale transition from Stockton Avenue to the railroad tracks.
- Would like to see retail fronting the river walks, but riparian setbacks limit this opportunity.
- Would like to see a large urban square near the San José Arena and the ballpark. Good location for sports simulcasts and public art.
- Would like to see bigger plaza in front of the new station. Good location for gathering space. Refer to European examples of urban plazas. Want to see San José's 'Times Square' and cultural opportunities.
- The recent art program at the San José airport is a good example of well integrated artworks.

## STATION DESIGN - CONCEPTS AND CONNECTIVITY

- New station design should integrate with the existing historic station and should recognize the importance of well integrated public art.

## ACCESS AND CIRCULATION

- Better connectivity for all modes, especially below SR 87. Plan looks as if improved connections just stop at SR 87.
- Connect the new station to downtown and Santana Row.
- Is it possible to add light rail to San Carlos and mix transit with traffic? Cozy. Effective. Avoids transit transfer. (e.g. San Francisco Muni LRT distributes people well).

## A.4 Follow up

### E-MAIL COMMENTS RECEIVED

Four e-mail comments were received from participants subsequent to the workshop. These were primarily intended to reiterate and emphasize the following issues which were raised during the report back section of the workshop activity;

- Restore Los Gatos Creek to its natural state at the Park Avenue/Autumn Parkway intersection in accordance with Good Neighbor Committee Implementation Priority.
- Would like to see more live/work uses with a campus feel north of the station. Should include ground floor retail along Julian Street.
- How can this area become more 'engaging' at the times when there are no scheduled events at the San José Arena or the ballpark?
- The parking strategy refers to the 20%VMT reduction targets within the 2040 General Plan update, but this figure should be the higher 40% VMT reduction also being discussed.

The full text of each of the four e-mails is included below;

#### COMMENT #1

In attending the Community Workshop at City Hall today, August 7, I was pleased to see that, in general, the designs presented by staff and consultants align closely with the Goals and Implementation Priorities chosen by the Diridon Area Good Neighbor Committee. However, in one important respect, the Diridon Area Station Plan (DSAP) - Final Plan Report failed to respond to a clearly stated priority of the Good Neighbor Committee.

In the Committee's "Framework for Implementation" for Parks and Trails, Implementation Priority #1 reads as follows:

1. Restore the natural setting of the waterways in the urban areas, including specifically that of the Los Gatos Creek as it passes under Montgomery Street and Park Avenue, and, to the extent possible, implement a river walk modeled on the one in San Antonio that balances nature and commercial vibrancy.

Currently, the Los Gatos Creek disappears into a culvert as it passes under Montgomery Street and Park Avenue. The maps shown at the Community Workshop give the impression that no changes were made to this situation. It appeared to me that the natural bed of the Los Gatos Creek will still be interrupted and the creek will still be directed through a culvert under Montgomery Street and Park Avenue.

This design (or, better said, this lack of design) is in direct contradiction to the priorities voted on by the Good Neighborhood Committee.

I urge staff and consultants to pay closer attention to the "Framework for Implementation" of the Good Neighbor Committee, and specifically for the design of Montgomery Street and Park Avenue to be modified to return the Los Gatos Creek to its natural setting under these streets. Such a design will also allow the Los Gatos Creek Trail to remain at creek level, and not have to be brought up to the sidewalk where users of the trail will be in direct conflict with potentially very heavy automobile and bus traffic.

## **COMMENT #2**

North Mixed Use Intensive Commercial / High Tech (north of San José Arena)

Suggestions if I may as you move forward:

- 1) include in this area loft and live-work space
- 2) include a mix of small-to-mid-size corporate campuses, NOT large

- 3) include small-to-mid-size office condo with shared lobby, conference and support for start up, consulting and business incubation
- 4) include secure sheltered bike parking with shower and changing area
- 5) include / integrate fitness and exercise businesses
- 6) dedicate at least 1 east-west street to wide, walkable, outdoor dining, coffee shop, small grocery and retail commercial with:
  - broadband wireless throughout
  - easy safe bike passage
  - ample bike safe parking along entire commercial avenue
  - designed it for use from dawn to midnight for those who live/work/visit in the area.

Why?

- a) it will make this a more vibrant, attractive, inviting place (eliminate/reduce dead zones)
- b) more eyes 24-7 add to the security and sense of community and ultimately its value to the City
- c) makes it a world class place to work
- d) it reduces the need for autos and parking making it easier to achieve 40% VMT reduction
- e) and most importantly it enhances economic sustainability reducing the impact from exogenous financial event and forces

### **COMMENT #3**

Core area east of Station

Suggestions if I may as you move forward. Imagine days with no ball game or Arena event. How would you design this area to draw people from the North Bay, East Bay, Sacramento, Central Valley, South Valley, Peninsula and maybe southern California to come to San José /Diridon and spend a day? .... to enjoy themselves and maybe spend the night? ... and get on the train with their shopping bags full, their tummies happy, and good stories to

share with their friends back home? And as they do this, they are always among people who live and work in this special place called Diridon.

#### **COMMENT #4**

Transportation and Parking Strategy (Up to 20% VMT Reduction)

- "Up to..." = weak, no commitment, evasive
- "... 20% Reduction" misses the target,
- > invites congestion,
- > is not eco friendly (green)
  - Designing for 20% reduction makes achieving 40% near impossible
  - Designing for 40% reduction makes 40% possible

## A.5 Next steps

The feedback gathered in this community workshop will help inform further development of the draft final Diridon Station Area plan. The information shown to the community at this workshop was described as being about 50% complete and that the planning team intend to bring this up to about 75% complete for the next key event, which will be a presentation of the draft DSAP - Final Plan Report to San José City Council in late September or (more likely) early October 2010. Community members will be encouraged once again to attend and provide additional comments for further refinement.

## APPENDIX B: REFERENCES



## B.1 References

**SPECIFIC REFERENCES ARE INCLUDED AS FOOTNOTES TO THE TEXT WHERE RELEVANT.**

**THE FOLLOWING DOCUMENTS WERE USED GENERALLY IN THE PREPARATION OF THIS REPORT AND IN CROSS-REFERENCES TO THE PREVIOUS EXISTING CONDITIONS REPORT AND ALTERNATIVES ANALYSIS REPORT:**

Reforming Parking Policies to Support Smart Growth in Local Jurisdictions: Best Practices. Metropolitan Transportation Commission , Wilbur Smith Associates et al., 2007.

Shared Parking, 2nd ed. Mary Smith, Urban Land Institute, 2005.

Parking Management Best Practices. Todd Litman, VTPI, 2006.

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Area Framework for Implementation
- Downtown Next! Public Art Focus Plan, San José Office of Cultural  
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- Envision San José 2040 General Plan Update, Appendix B:  
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Bus Boardings. Table provided July 2009.
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- Santa Clara Valley Transportation Authority (VTA). Bikeways Map  
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- Santa Clara Valley Transportation Authority (VTA). Bus & Rail Map  
(January 2008)
- Santa Clara Valley Transportation Authority (VTA). Route Schedule  
(July 13, 2009)

## APPENDIX C: RELATED DOCUMENTS



## C.1

Diridon Station Area Plan - Implementation Strategy Report -  
June 2014

## C.2

Diridon Station Area Plan - 10-Year Horizon Analysis Report -  
June 2014



